

User's Manual

VoIP ATA

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FCC Part 68

This equipment complies with Part 68 of the FCC Rules. On the bottom of this equipment is a label that contains the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. User must provide this information to the telephone company upon request.

The REN is useful to determine the quantity of devices you may connect to the telephone line and still have those entire devices ring when your number is called. In most, but not all areas, the sum of the REN of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If the modem causes harm to the telephone network, the telephone company may discontinue your service temporarily.

If possible, they will notify you in advance. But if advance notice isn't practical, you will be notified as soon as possible.

User will be advised of your right to file a complaint with the FCC.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper operation of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If you experience trouble with this modem, please contact your dealer for repair/warranty information. The telephone company may ask you to disconnect this equipment from the network until the problem have been corrected or you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

FCC Part 15

The modem generates and uses radio frequency energy. If it is not installed and used properly in strict accordance with the user's manual, it may cause interference with radio and television reception. The modem has been tested and found to comply with the limits for Class B computing devices in accordance with the specifications in Subpart B, Part 15 of the FCC regulations. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. FCC regulations require that shielded interface cables be used with your modem.

If interference does occur, we suggest the following measures be taken to rectify the problem:

- 1) Move the receiving antenna.
- 2) Move the modem away from the radio or TV.
- 3) Plug the modem into a different electrical outlet.
- 4) Discuss the problem with a qualified radio / TV technician.

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance to the FCC Rules could void the user's authority to operate this equipment.

Cable connections:

All equipment connected to this modem must use shielded cable as the interconnection means.

Notes:

Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received including interference that may cause undesired operation.

Chapter 1 Introduction

The VoIP ATA provides easy way to make a free call via internet. User can set it as PPPoE client, Static IP or DHCP client to connect to the internet. The device is fully complaint with SIP v1/v2 standard so you need to register a SIP account or number to make the phone call to your friends.

1.1 Overview

The VoIP ATA is optimized to suitable for the growing demand of VoIP application, and it does so as a single, highly-integrated and cost-effective solution. The NAT function let user can easy to set the device to link to the internet and configure the VoIP setting to enjoy the call free via internet.

Note: We offer free SIP account number for our VoIP device at the beginning, but we only guarantee 1 year to let user to use the free SIP account number. User can find lots free SIP server from the internet or service provider, so please choose the best way to register the SIP server. We only provide the free SIP account for the default testing and you can use it only 1 year.

1.2 Features

- Key features

- STUN (Simple Travel of UDP over NAT)
- Dynamic DNS
- DMZ & VLAN Function
- DHCP (dynamic host configuration protocol) server and client
- NAT (network address translation)

- VoIP Features

- Voice codec
 - G.711:64k bit/s (PCM)
 - G.723.1: 6.3k / 5.3k bit/s
 - G.726: 16k / 24k / 32k / 40k bit/s (ADPCM)
 - G.729A : 8k bit/s (CS-ACELP)
 - G.729B : adds AD & CNG to G.729

- Voice Quality
 - VAD(Voice activity detection),
 - CNG (Comfortable noise generator)
 - LEC (Line echo canceller)
 - Packet Loss Compensation
 - Adaptive Jitter Buffer

- Call Function
 - Call Hold
 - Call Waiting
 - Call Forward
 - Caller ID
 - 3-Way Conferencing

- DTMF Function
 - In-Band DTMF
 - Out-Band DTMF
 - SIP Info

- Phone Function
 - Volume Adjustment
 - Speed dial key
 - Phone book

- Security

- MD5 for SIP authentication (RFC2069/ RFC 2617)
- Password protected system management

- Ethernet Interface
 - Compliant with IEEE 802.3 and 802.3u 10/100 Mbps
- HTTP Web-Based Management
 - Firmware upgrade by UI
 - Customizable Web pages
 - WAN and LAN side connection statistics
 - Configuration of static routes and routing table
 - Password protected access

1.3 System Requirements

- 1) Personal computer (PC)
 - 2) Pentium II 233 MHz processor minimum
 - 3) 32 MB RAM minimum
 - 4) 20 MB of free disk space minimum
 - 5) Ethernet Network Interface Controller (NIC) RJ45 Port
 - 6) Internet Browser
-

Chapter 2 Installation

This chapter offers information about installing the router. If you are not familiar with the hardware or software parameters presented here, please consult your service provider for the values needed.

2.1 Checklist

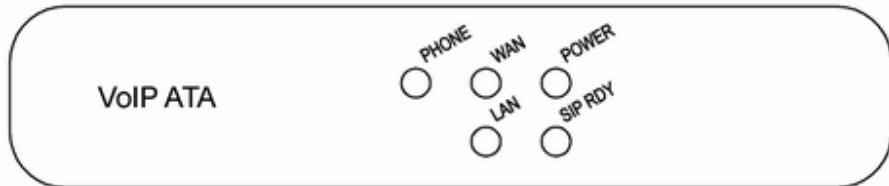
Check the shipping box carefully to ensure that the contents include the items you ordered. If any of the items are missing or damaged, contact your local distributor. The contents of your carton may vary depending on your service provider.

Contents description

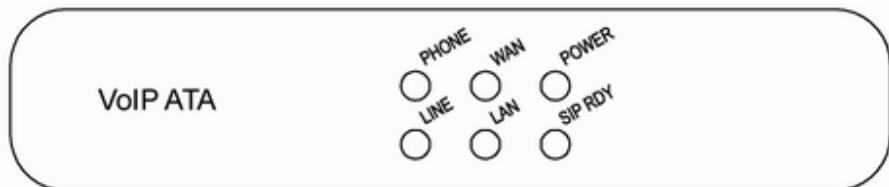
- 1) VoIP ATA for home/office use
- 2) Installation and Operation Guide (this publication)
- 3) Power supply with 9V AC / 1 Ampere power adapter
- 4) RJ-11 telephone cable (6 ft)
- 5) Ethernet cable Ethernet category 5 twisted pair cable (6 ft)

2.2 The Front LEDs

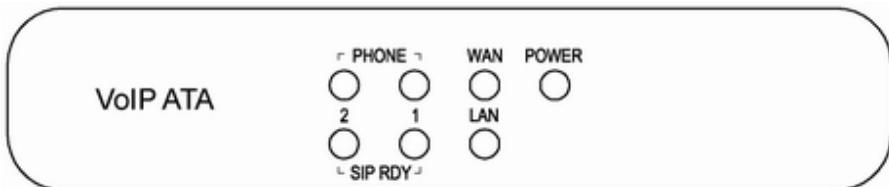
VoIP ATA with 1 FXS



VoIP ATA with 1FXO & 1FXS



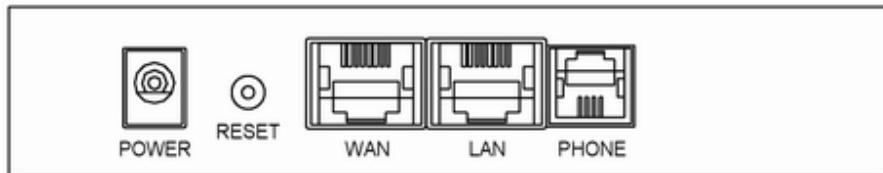
VoIP ATA with 2FXS



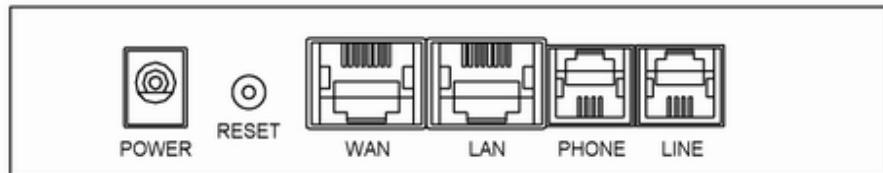
LED	State	Description	
POWER	ON	When the router power on.	
WAN	ON	When the device connect to Route.	
	Flashing	Data transfer.	
LAN	ON	When the device connect to PC.	
	Flashing	Data transfer.	
PHONE1	Flashing	When the phone off hook.	
	OFF	When the phone on hook.	
SIP RDY1	ON	The SIP number is registered.	
PHONE2	Flashing	When the phone off hook.	* Check the device you bought, only for specific model has these ports.
	OFF	When the phone on hook.	
SIP RDY2	ON	The SIP number is registered.	
LINE	ON	The PSTN Line is connected.	

2.3 The Rear Ports

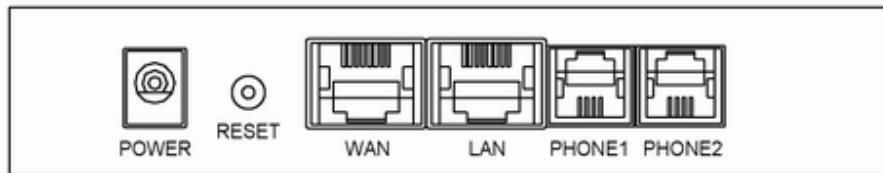
VoIP ATA with 1 FXS



VoIP ATA with 1FXO & 1FXS



VoIP ATA with 2FXS



Connector	Description
POWER	Power connector with 9VDC/ 1.5 Ampere.
Reset Switch	The reset button, the router restore default settings when press until reboot.
WAN	The device connects to a router or DSL router.
LAN	For PC or NB to connect to the device.
PHONE/PHONE1	For analog phone to connect to the device.
PHONE2	For analog phone to connect to the device. (Check the device you bought, only specific model has this port.)
LINE	For the PSTN line to connect to the device. (Check the device you bought, only specific model has this port.)

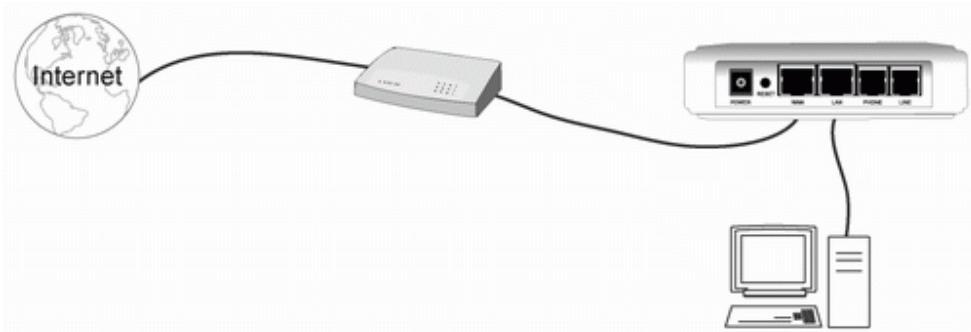
2.4 Hardware installation

This section describes how to connect and configure the device.

Step 1.

Connect the DSL/Cable Modem or Broadband Router.

Connect the gateway directly to the LAN port of these devices.



Step 2.

Connect a Phone to the RJ-11 Phone Ports.

Use the analog phone connects to the Phone port.



Step 3.

Connect the PSTN line to the RJ-11 Line port.

Connect the PSTN line to the Line port.



Optional: only specific model supports this feature, please check the one you buy, if no this port (Line) it means no this feature.

Step 4.

Connect the Power Adapter to the Router.

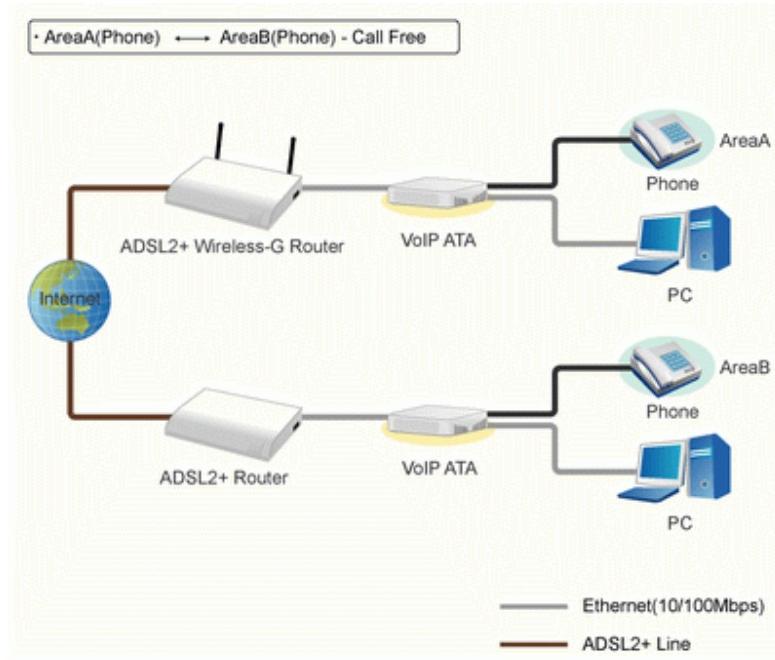
Connect the power adapter to the port labeled POWER on the rear panel of router.



2.5 VoIP SIP application

1. Scenario 1 : (FXS to FXS) --- call free.

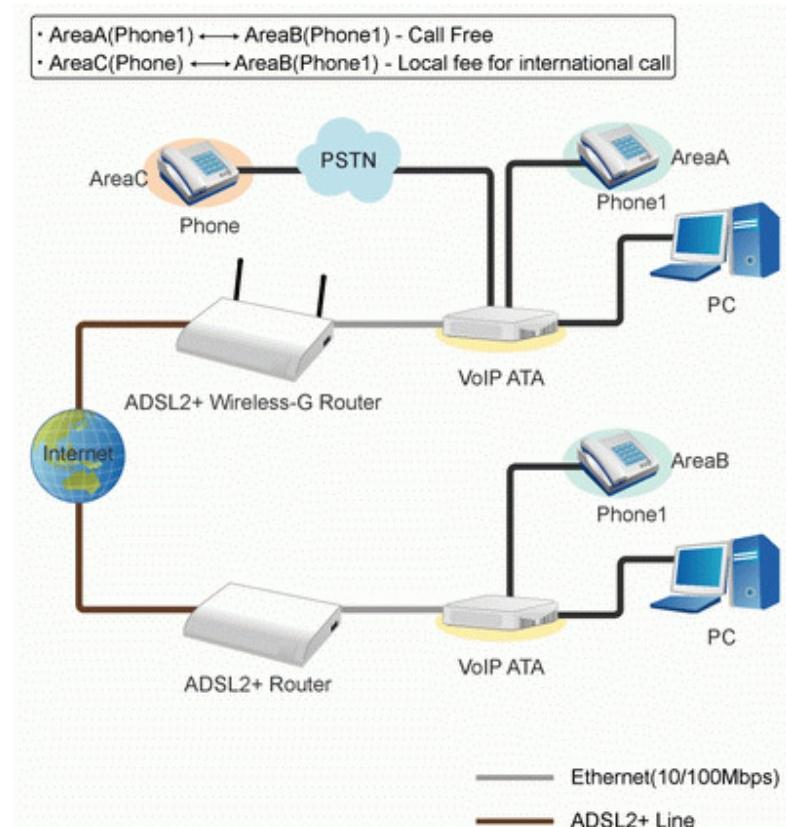
In this scenario, user can call from Area A to Area B via this device and no more expense for the phone call.



2. Scenario 2: (FXS to FXO) --- Internet call transfer to local PSTN call

In this scenario, user can call from Area A to Area B via this device and no more expense for the phone call.

Or from Area C a local home or office dial to Area A and set the gateway to transfer the phone to Area B, if your office is at overseas; it will save international call expense and just charge the local call from Area C to Area A.

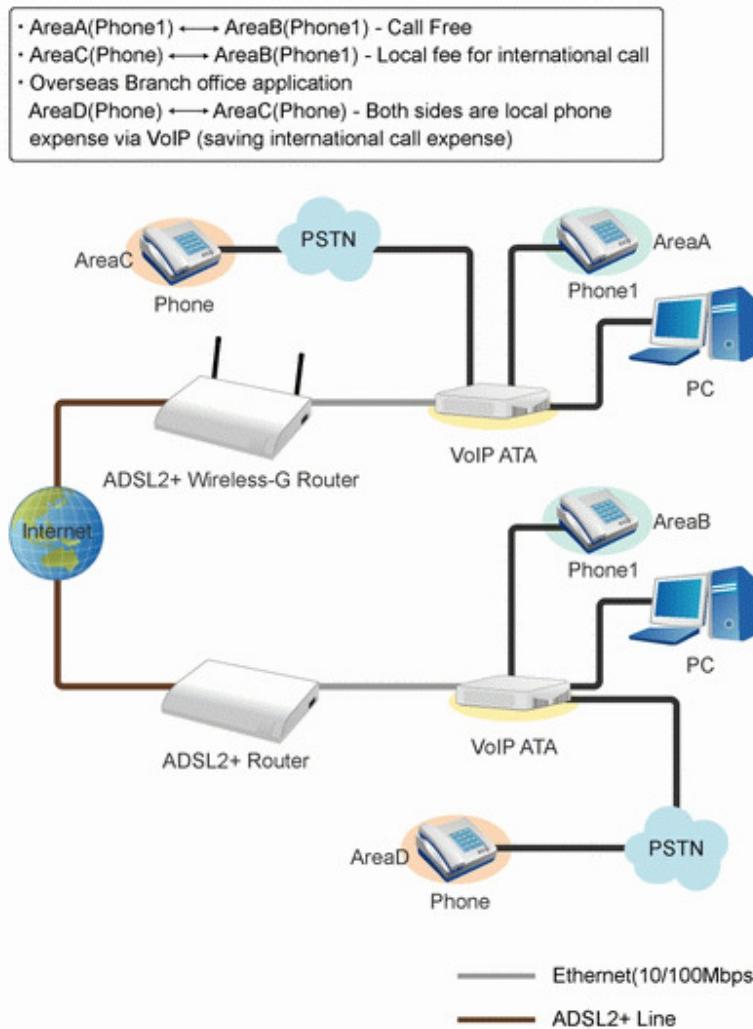


3. Scenario 3: (FXO to FXO) --- PSTN via Internet to another PSTN (save the international expense)

In this scenario, user can call from Area A to Area B via this device and no more expense for the phone call.

Or from Area C a local home or office dial to Area A and set the gateway to transfer the phone to Area B, if your office is at overseas; it will save international call expense and just charge the local call from Area C to Area A.

Or call from Area C to Area D, both sides are charged the local call expense only.



Chapter 3 Configuration

3.1 Determine your connection settings

Before you configure the gateway; you need to know the connection information supplied by your ADSL service provider or just set it as a DHCP client.

3.2 Connecting the Gateway to your network

Because the Gateway can act as a DHCP server, you will have to set your PC as DHCP Client to auto accept the IP Address from the Router. Generally there are several different operating modes for your applications. And you can know which mode is necessary for your system. These modes are DHCP client, PPPoE, Fixed IP.

3.3 Configuring with Web Browser

It is advisable to change the administrator password to safeguard the security of your network.

To configure the router, open your browser, type '<http://192.168.3.1>' into the address bar and click 'Go' to get to the login page. Save this address in your Favorites for future reference.

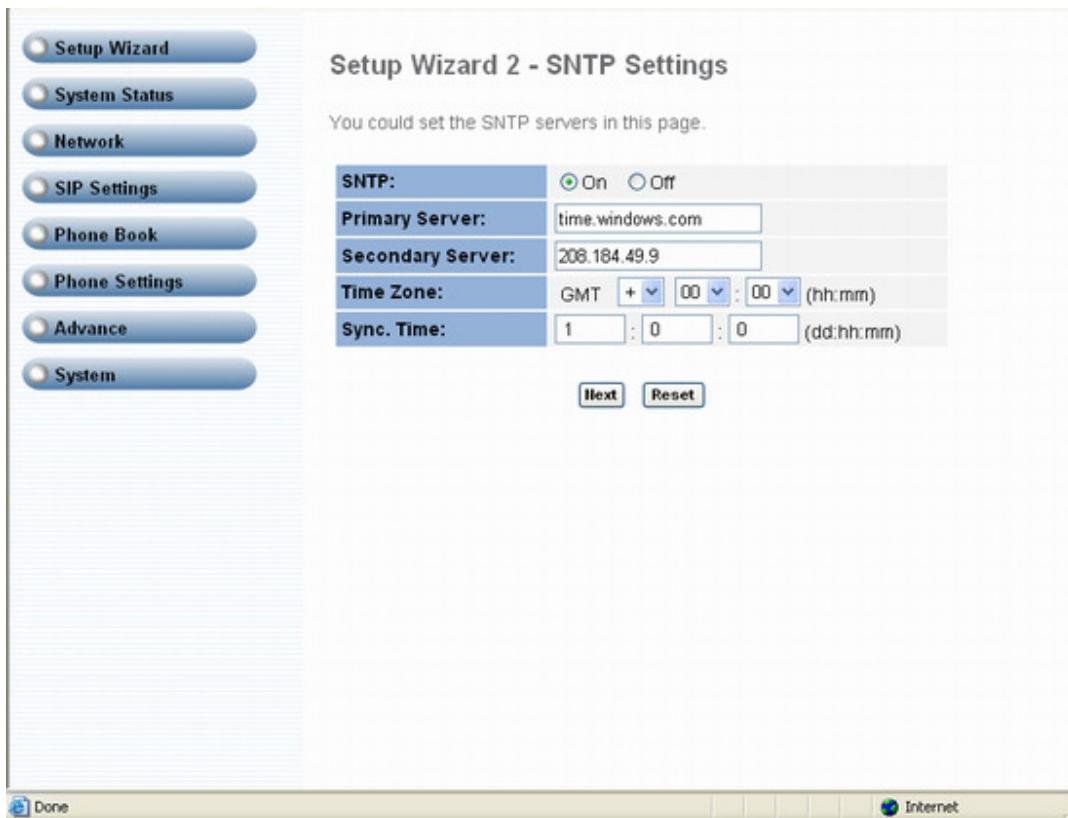
The screenshot shows a web-based login form titled "Login VoIP". The form has a blue header and a light blue body. It contains the following text:
Enter your username and password to login
VoIP server
Username: admin
Password: *****
At the bottom are two buttons: "Login" and "Clear".

3.3.1 Setup Wizard – WAN Settings



Setup Wizard is the easy way to set up this VoIP ATA quickly. In the first step, user can set the LAN mode and WAN IP type. When finish the settings, click Next button to next page.

3.3.2 Setup Wizard – SNTP Settings



In this page, user can set up the SNTP server. User can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.3.3 Setup Wizard – Service Domain Settings

The screenshot shows the 'Setup Wizard 3 - Service Domain Settings' interface. On the left, a vertical menu lists: Setup Wizard, System Status, Network, SIP Settings, Phone Book, Phone Settings, Advance, and System. The main content area is titled 'Setup Wizard 3 - Service Domain Settings' and contains the following configuration for 'Realm 1 (Default)':

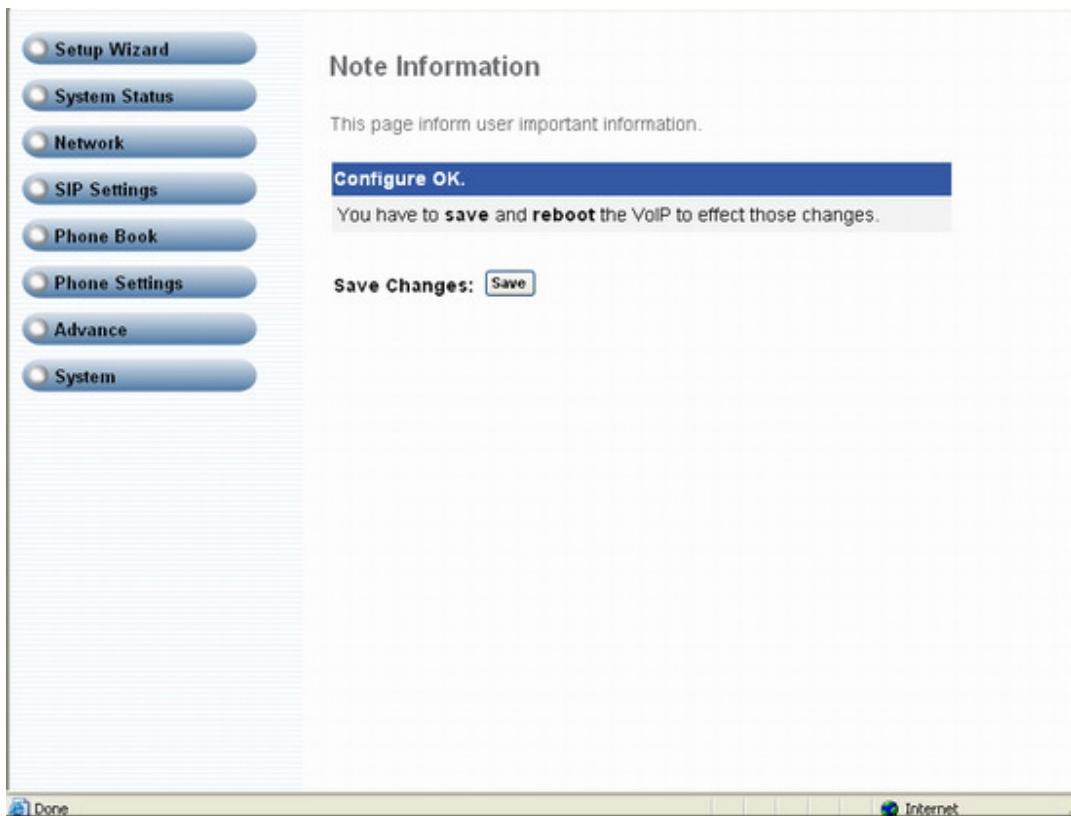
Active:	<input type="radio"/> On <input checked="" type="radio"/> Off
Display Name:	[Text Input]
User Name:	[Text Input]
Register Name:	[Text Input]
Register Password:	[Redacted]
Domain Server:	[Text Input]
Proxy Server:	[Text Input]
Outbound Proxy:	[Text Input]
Subscribe for MWI:	<input type="radio"/> On <input checked="" type="radio"/> Off
Status:	Not Registered

Below 'Realm 1' is 'Realm 2' with similar fields. At the bottom are 'Done' and 'Internet' buttons.

In this page, user can set up the SIP server settings. In Service Domain Function you need to input the account and the related information in this page, please refer to your ISP provider. User can register three SIP accounts. User can dial the VoIP phone to your friends via first enable SIP account and receive the phone from these three SIP accounts. For the second phone you can use the same way to register.

- First you need click Active to enable the Service Domain, then you can input the following items:
- **Display Name:** you can input the name you want to display.
- **User Name:** you need to input the User Name get from your ISP.
- **Register Name:** you need to input the Register Name get from your ISP.
- **Register Password:** you need to input the Register Password get from your ISP.
- **Domain Server:** you need to input the Domain Server get from your ISP.
- **Proxy Server:** you need to input the Proxy Server get from your ISP.
- **Outbound Proxy:** you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.
- User can see the Register Status in the Status item. If the item shows "Registered", then your Gateway is registered to the ISP, you can make a phone call directly.
- If you have more than one SIP account, you can follow the steps to register to the other ISP account.

- When you finished the setting, please click the Submit button.
- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.



After finish the setup wizard, please click Save button to save the settings. The device will reboot again to save the settings.

3.4.1 System Status

The screenshot shows a web-based configuration interface for a VoIP device. On the left is a vertical menu bar with rounded blue buttons containing white icons and text. The 'System Status' button is highlighted with a red background and white text. The main content area is titled 'System Status' and contains several sections with configuration parameters.

Firmware Version

Model Name:	VoIP
Firmware Version:	Thu Sep 6 09:33:05 2007.
Codec Version:	Thu Aug 23 17:43:12 2007.

VoIP Service

Phone Realm1:	Not Registered
----------------------	----------------

WAN

Type:	DHCP Client
IP Address:	0.0.0.0
Mask:	0.0.0.0
Gateway:	0.0.0.0
DNS Server 1:	168.95.192.1
DNS Server 2:	168.95.1.1

LAN

At the bottom of the browser window, the address bar shows the URL <http://192.168.3.1/statusK.htm> and the status bar shows 'Internet'.

User can check the System status page for the Firmware version, VoIP Service status, WAN, LAN activities status.

3.5.1 WAN Settings

The screenshot shows a web-based configuration interface for a network device. The left sidebar has a 'Network' section with 'WAN Settings' selected. The main content area is titled 'WAN Settings' and contains a message: 'You could configure the WAN settings in this page.' Below this is a 'LAN Mode' section with 'Bridge' and 'NAT' options, where 'NAT' is selected. The 'WAN Setting' section contains fields for IP Type (set to DHCP Client), IP Address (0.0.0.0), Mask (0.0.0.0), Gateway (0.0.0.0), DNS Server1 (168.95.192.1), DNS Server2 (168.95.1.1), MAC (0005b4500b90), and Host Name (VOIP_TA1S10). The 'PPPoE Setting' section contains fields for User Name (empty), Password (redacted), and Service Name (empty). The bottom status bar shows the URL http://192.168.3.1/WAN.htm and an Internet connection icon.

There are 3 modes for WAN setting, Fixed IP, DHCP Client and PPPoE. User can choose one to suit for your application. If you set the WAN as PPPoE client, you need to fill out the PPPoE user name and password at the PPPoE Setting column.

If you set the LAN Mode as Bridge, it will by pass all the packets from WAN to LAN directly.

3.5.2 LAN Settings

The screenshot shows a web-based configuration interface for a network device. On the left, a vertical menu bar lists several options: Setup Wizard, System Status, Network (which is selected and highlighted in red), WAN Settings, LAN Settings (selected), STUN Settings, DDNS Settings, VLAN Settings, DMZ Setting, Virtual Server Settings, PPTP Settings, SIP Settings, Phone Book, Phone Settings, Advance, and System. The main content area is titled "LAN Settings" and contains a message: "You could configure the LAN settings in this page." Below this is a "LAN Setting" section with three input fields: IP Address (192.168.3.1), Mask (255.255.255.0), and MAC (0005b4500b91). Further down is a "DHCP Server" section with four input fields: DHCP Server (radio buttons for On and Off, with On selected), Start IP (150), End IP (200), and Lease Time (1 : 0 (dd:hh)). At the bottom right of the form are "Submit" and "Reset" buttons. The status bar at the bottom of the window includes icons for Done, Internet, and Help.

User can change the LAN IP or disable the DHCP server at the page.

3.5.3 STUN Settings

The screenshot shows a web-based configuration interface for a network device. On the left, there is a vertical navigation menu with the following items:

- Setup Wizard
- System Status
- Network** (highlighted in red)
- WAN Settings
- LAN Settings
- STUN Settings** (highlighted in red)
- DDNS Settings
- VLAN Settings
- DMZ Setting
- Virtual Server Settings
- PPTP Settings

Below the navigation menu, the main content area has a title "STUN Setting". A sub-instruction "You could set the IP of STUN server in this page." is displayed. The configuration form includes the following fields:

STUN:	<input type="radio"/> On <input checked="" type="radio"/> Off
STUN Server:	<input type="text"/>
STUN Port:	3478 (80~65535)

At the bottom right of the form are two buttons: "Submit" and "Reset". At the very bottom of the interface, there is a toolbar with icons for "Done", "Internet", and other system-related functions.

Set a STUN server for VoIP Phone, you can enable or disable the phone at this page.

3.5.4 DDNS Settings

The screenshot shows a web-based configuration interface for a network device. The left sidebar has a 'Network' section highlighted in red, containing options like WAN Settings, LAN Settings, STUN Settings, DDNS Settings (which is selected), VLAN Settings, DMZ Setting, Virtual Server Settings, and PPTP Settings. Other sections include SIP Settings, Phone Book, Phone Settings, Advance, and System.

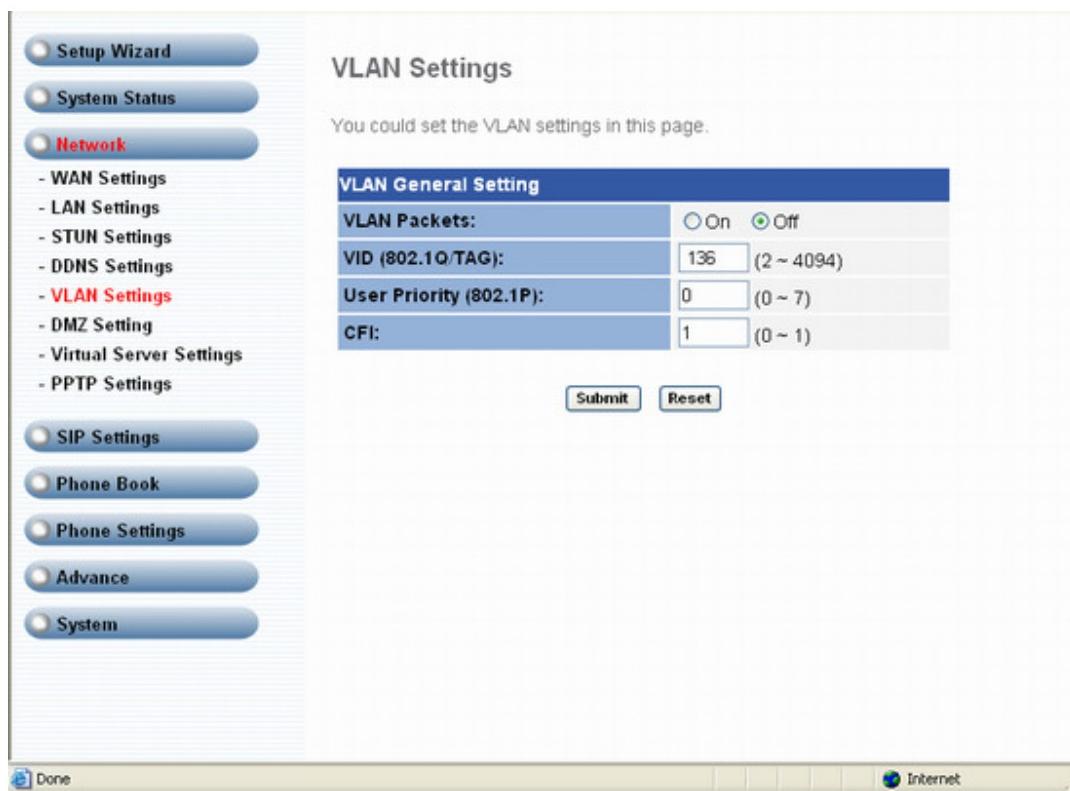
The main content area is titled 'DDNS Settings' and contains the following fields:

- DDNS:** Radio buttons for On (selected) and Off.
- Host Name:** Text input field.
- User Name:** Text input field.
- Password:** Text input field.
- E-mail Address:** Text input field.
- DDNS Server:** Text input field.
- DDNS Server List:** A dropdown menu set to 'User Input'.
- Type:** A dropdown menu set to 'dyndns'.
- Wild Card:** A dropdown menu set to 'on'.
- BACKMX:** Radio buttons for On (selected) and Off.
- Off Line:** Radio buttons for On (selected) and Off.

At the bottom are 'Submit' and 'Reset' buttons, and a status bar showing 'Done' and 'Internet'.

Dynamic DNS allows you to update your dynamic IP address with one or many dynamic DNS services. So anyone can access your FTP or Web service on your computer using DNS-like address.

3.5.5 VLAN Settings



User can enable the VLAN function at this page. There are two parts in this page. First one is to set the packets related to the gateway, and the second part is if you use the VLAN setting in the NAT Mode.

There are two kind of destination packets will come from the Gateway's WAN port, one kind of packets will go to the Gateway, the other will go through the LAN port to the PC.

-- **VLAN Packets:** if you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets will be check with the IP Address and the VID.

-- **VID:** User can follow your service provider to set your VID.

-- **User Priority:** Defines user priority, giving eight (2^3) priority levels. IEEE 802.1P defines the operation for these 3 user priority bits. Usually this will be defined by your service provider.

-- **CFI:** Canonical Format Indicator is always set to zero for Ethernet switches. CFI is used for compatibility reason between Ethernet type network and Token Ring type network. If a frame received at an Ethernet port has a CFI set to 1, then that frame should not be forwarded as it is to an untagged port.

When you enable the first VLAN Packets and set the VID, User Priority, and CFI, then all the incoming packets with the Gateway's IP address and the same VID will be accept by the Gateway. If the incoming packets with the Gateway's IP address but the different VID then the packets will be discard by the Gateway. The Other incoming packets with different IP address will go through the LAN port to the PC.

NAT VLAN Setting: When you set your device in NAT mode, the Gateway can help you to filter the wrong

incoming packets. User can separate the other device connected behind the Gateway into 4 VLAN group. User can set different VID for these 4 groups. When the incoming packets go through the Gateway's WAN port then the Gateway will check the VID, if the packets is not going to the Gateway(with the Gateway's IP address and the correct VID), and the VID is not these four VID you set, then the packets will be discard by the Gateway.

3.5.6 DMZ Settings

The screenshot shows a web-based configuration interface for a network device. On the left, a vertical menu bar lists several categories: Setup Wizard, System Status, Network (which is selected and highlighted in red), WAN Settings, LAN Settings, STUN Settings, DDNS Settings, VLAN Settings, DMZ Setting (selected), Virtual Server Settings, PPTP Settings, SIP Settings, Phone Book, Phone Settings, Advance, and System. The main content area is titled "DMZ Setting" and contains the following text: "You could configure your demilitarized zone setting in this page." Below this is a form with two fields: "DMZ:" with radio buttons for "On" (unchecked) and "Off" (checked), and "DMZ Host IP:" with a text input field containing "0.0.0.0". At the bottom right of the form are "Submit" and "Reset" buttons. At the very bottom of the screen, there is a toolbar with icons for "Done", "Internet", and other system-related functions.

User can set DMZ to mapping to the internal server or PC.

3.5.7 Virtual Server Settings

The screenshot shows a web-based configuration interface for a device. On the left, there is a vertical navigation menu with the following items:

- Setup Wizard
- System Status
- Network** (highlighted)
- WAN Settings
- LAN Settings
- STUN Settings
- DDNS Settings
- VLAN Settings
- DMZ Setting
- **Virtual Server Settings** (highlighted in red)
- PPTP Settings
- SIP Settings
- Phone Book
- Phone Settings
- Advance
- System

The main content area is titled "Virtual Server Settings". It contains a brief description: "You could set your virtual servers in this page. The usual port numbers are WEB [TCP 80], FTP(Control) [TCP 21], FTP(Data) [TCP 20], E-mail(POP3) [TCP 110], E-mail(SMTP) [TCP 25], DNS [UDP 53] and Telent [TCP 23]."

Below the description is a search bar labeled "Virtual Server Page:" with a dropdown showing "Page 1".

A table is displayed for managing virtual servers. The columns are:

Num	Enable	Protocol	In Port	Ex Port	Server IP	Select
0	<input type="checkbox"/>					<input type="checkbox"/>
1	<input type="checkbox"/>					<input type="checkbox"/>
2	<input type="checkbox"/>					<input type="checkbox"/>
3	<input type="checkbox"/>					<input type="checkbox"/>
4	<input type="checkbox"/>					<input type="checkbox"/>
5	<input type="checkbox"/>					<input type="checkbox"/>
6	<input type="checkbox"/>					<input type="checkbox"/>
7	<input type="checkbox"/>					<input type="checkbox"/>

At the bottom of the table are four buttons: "Enable Selected", "Delete Selected", "Delete All", and "Reset".

The browser address bar at the bottom shows "http://192.168.3.1/vs.htm" and the status bar shows "Internet".

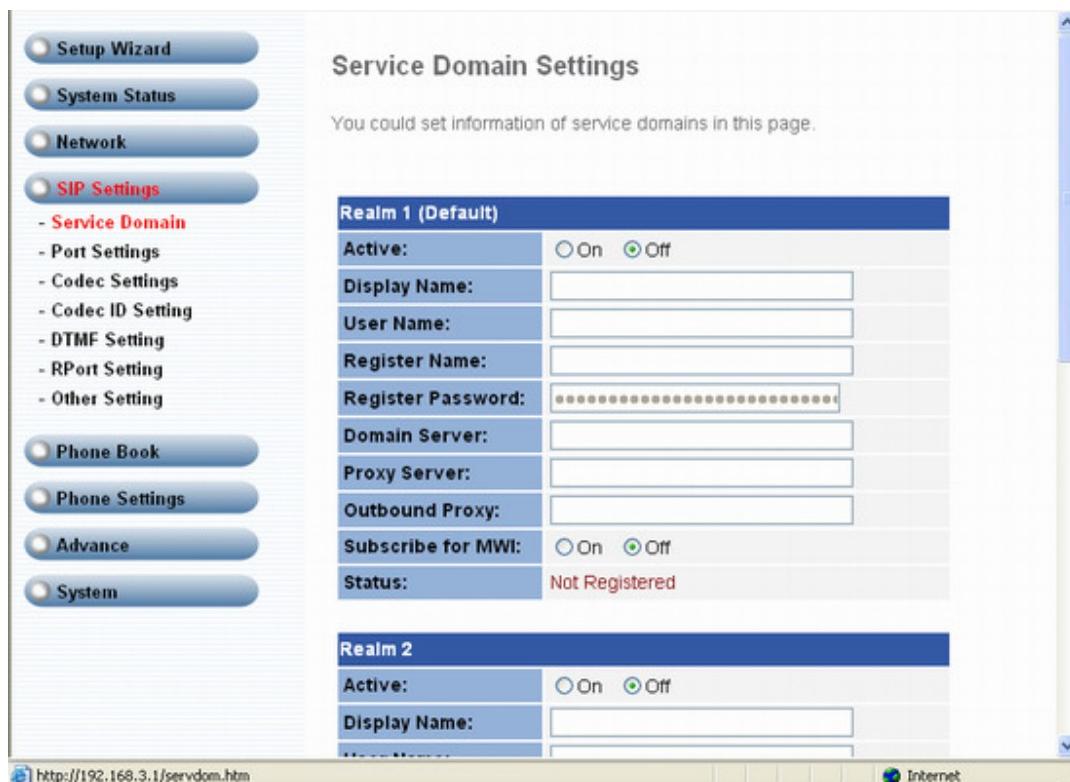
User can set Virtual Server at this page and mapping to the internal server or PCs for the special protocols. It supports max. 24 virtual server lists for the device.

3.5.8 PPTP Settings

The screenshot shows a web-based configuration interface for network settings. On the left, a vertical menu bar lists various options: Setup Wizard, System Status, Network (which is selected and highlighted in red), WAN Settings, LAN Settings, STUN Settings, DDNS Settings, VLAN Settings, DMZ Setting, Virtual Server Settings, PPTP Settings (selected and highlighted in red), SIP Settings, Phone Book, Phone Settings, Advance, and System. The main content area is titled "PPTP Settings" and contains the following text: "You could set the PPTP server in this page." Below this, there is a form with three input fields: "PPTP:" with radio buttons for "On" and "Off" (where "Off" is selected), "PPTP Server:" (empty input field), "PPTP Username:" (empty input field), and "PPTP Password:" (empty input field). At the bottom right of the form are "Submit" and "Reset" buttons. The status bar at the bottom of the window shows "Done" and "Internet".

In this page, user can set the PPTP account here. Fill out the PPTP Server, PPTP Account and Password here. Press Submit to save the settings.

3.6.1 Service Domain

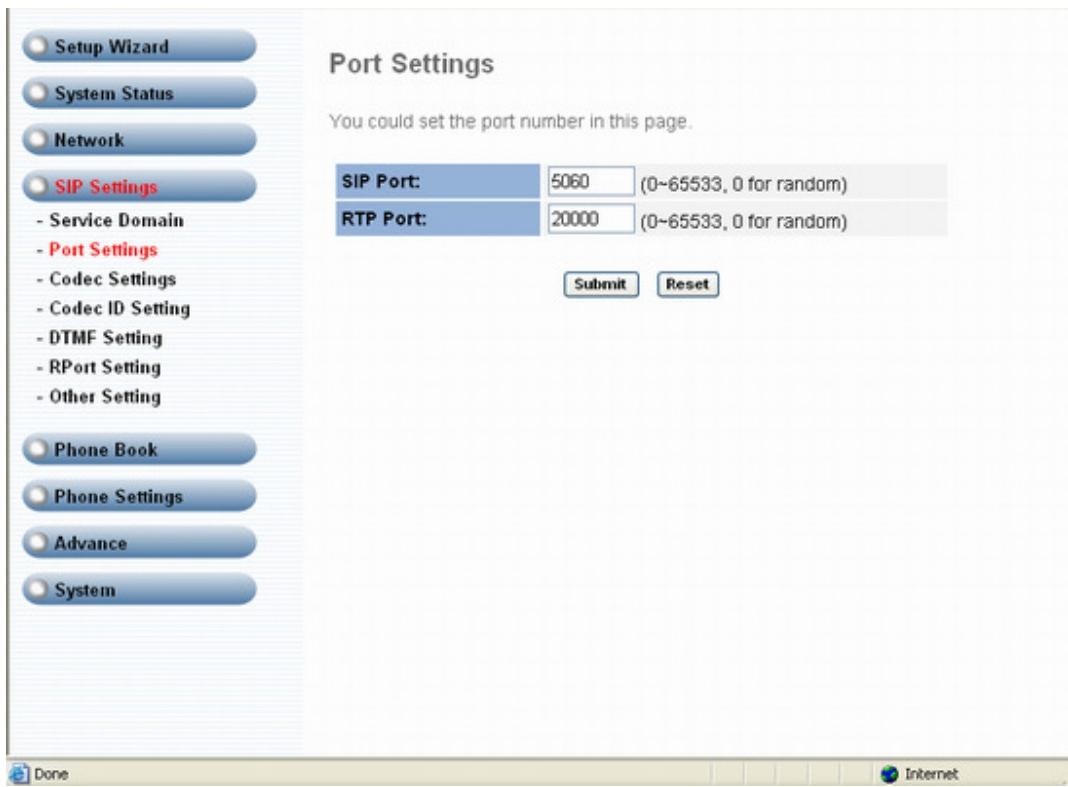


In Service Domain Function you need to input the account and the related information in this page, please refer to your ISP provider. User can register three SIP accounts. User can dial the VoIP phone to your friends via first enable SIP account and receive the phone from these three SIP accounts. For the second phone you can use the same way to register.

- First you need click Active to enable the Service Domain, then you can input the following items:
- **Display Name:** you can input the name you want to display.
- **User Name:** you need to input the User Name get from your ISP.
- **Register Name:** you need to input the Register Name get from your ISP.
- **Register Password:** you need to input the Register Password get from your ISP.
- **Domain Server:** you need to input the Domain Server get from your ISP.
- **Proxy Server:** you need to input the Proxy Server get from your ISP.
- **Outbound Proxy:** you need to input the Outbound Proxy get from your ISP. If your ISP does not provide the information, then you can skip this item.
- User can see the Register Status in the Status item. If the item shows "Registered", then your Gateway is registered to the ISP, you can make a phone call directly.
- If you have more than one SIP account, you can follow the steps to register to the other ISP account.
- When you finished the setting, please click the Submit button.

-- If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.6.2 Port Settings



User can setup the SIP and RTP port number in this page. Each ISP provider will have different SIP/ RTP port setting, please refer to the ISP to setup the port number correctly. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.6.3 Codec Settings



User can setup the Codec priority, RTP packet length, and VAD function in this page. User need to follow the ISP suggestion to setup these items. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.6.4 Codec ID Settings

The screenshot shows a web-based configuration interface for a VoIP device. On the left, there is a vertical navigation menu with the following items:

- Setup Wizard
- System Status
- Network
- SIP Settings** (highlighted in red)
- Service Domain
- Port Settings
- Codec Settings
- Codec ID Setting** (highlighted in red)
- DTMF Setting
- RPort Setting
- Other Setting
- Phone Book
- Phone Settings
- Advance
- System

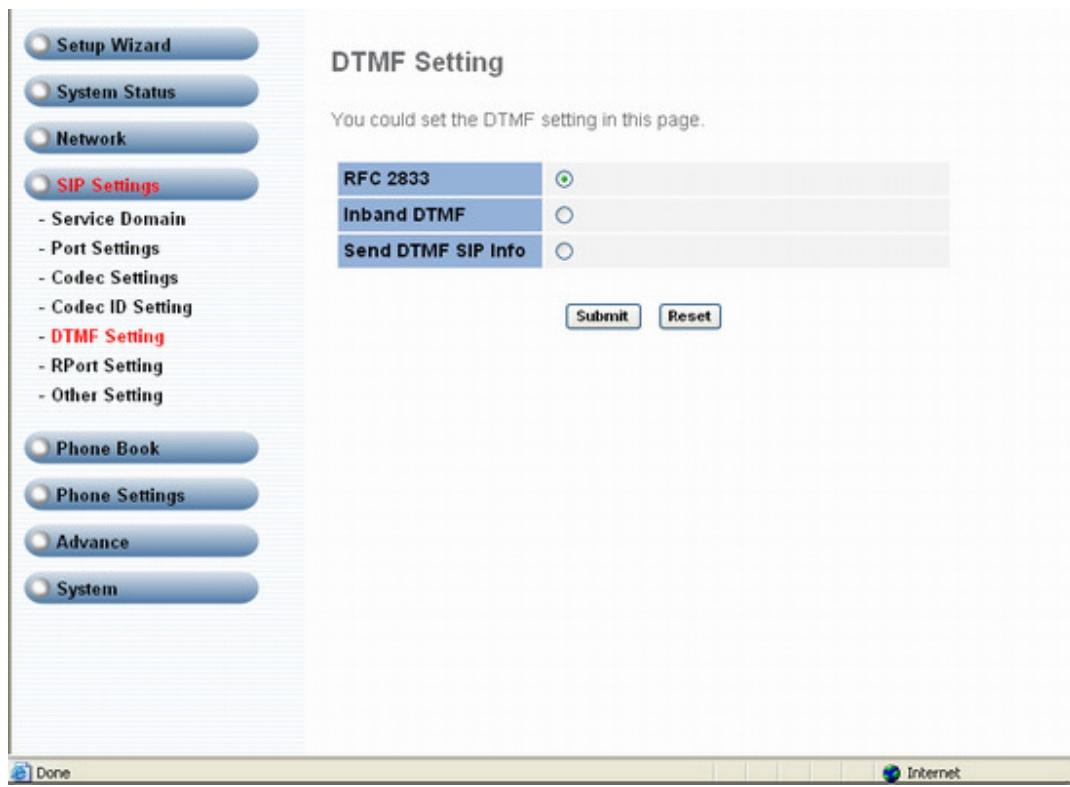
The main content area is titled "Codec ID Setting". It contains a note: "You could set the value of Codec ID in this page. For most users, it is recommended to use default settings. If you want to change the values, please contact with your SIP provider." Below this is a table showing current settings:

Codec Type	ID	Default Value
G726-16 ID:	23 (95~255)	<input checked="" type="checkbox"/> 23
G726-24 ID:	22 (95~255)	<input checked="" type="checkbox"/> 22
G726-32 ID:	2 (95~255)	<input checked="" type="checkbox"/> 2
G726-40 ID:	21 (95~255)	<input checked="" type="checkbox"/> 21
RFC 2833 ID:	101 (95~255)	<input checked="" type="checkbox"/> 101

At the bottom right of the table are "Submit" and "Reset" buttons. At the bottom left of the page is a "Done" button. The status bar at the bottom right shows "Internet".

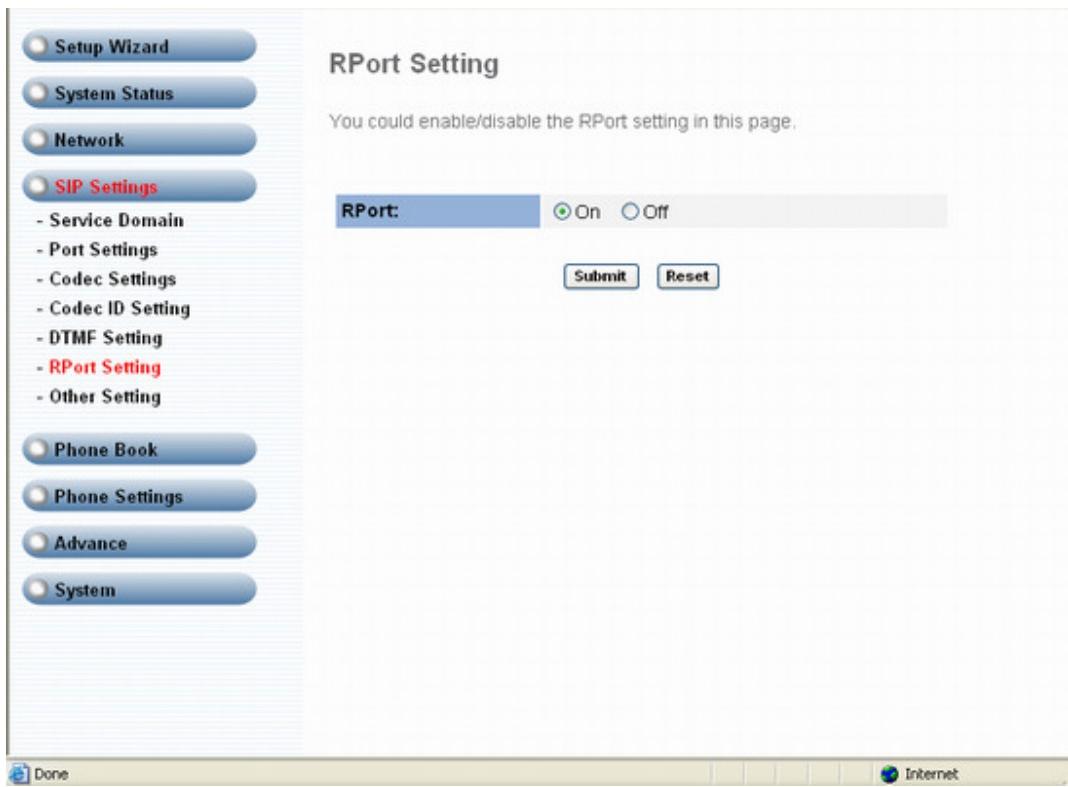
Sometimes 2 VoIP devices with different Codec ID will cause the interoperability issue. If you are talking with others got some problems, you may ask the other one what kind of Codec ID he use, and then you can change your Codec ID. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.6.5 DTMF Settings



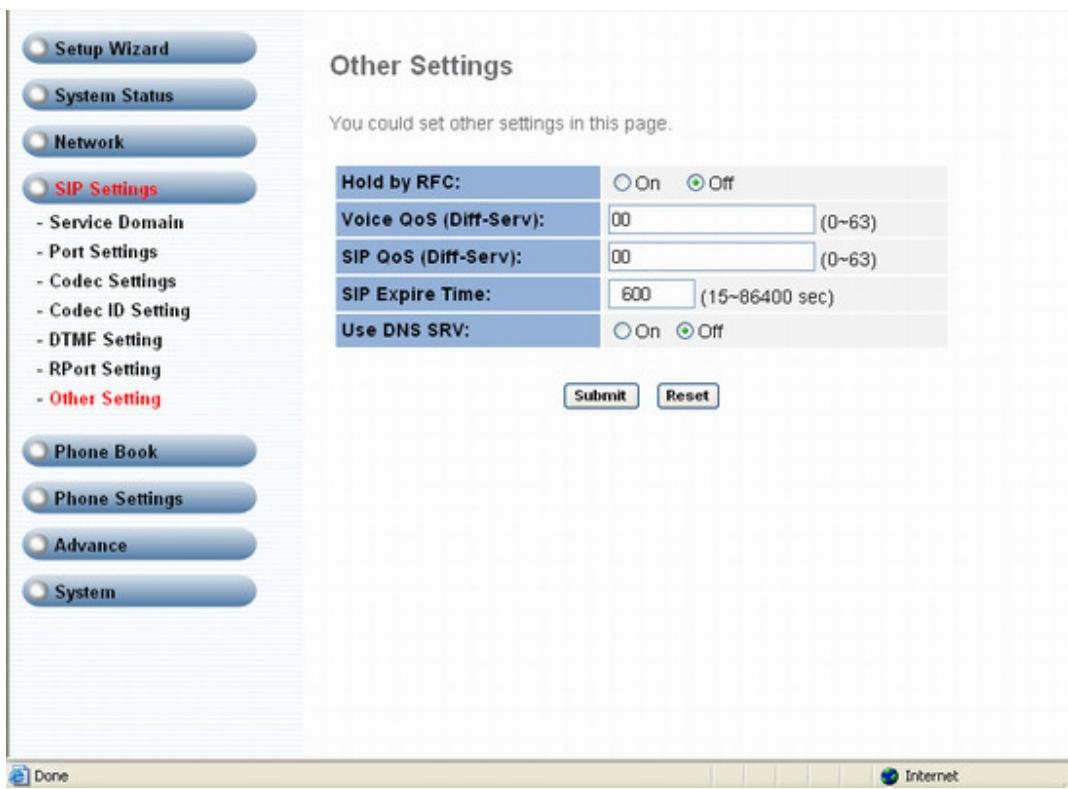
User can setup the RFC2833 Out-Band DTMF, In-band DTMF and Send DTMF SIP Info (2833) in this page. To change this setting, please follow your ISP or SIP server information. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.6.6 RPort Settings



User can setup the RPort Enable/Disable in this page. To change this setting, please follow your ISP or SIP server information. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.6.7 Other Settings



User can setup the Hold by RFC, Voice/SIP QoS and SIP expire time in this page. To change these settings please following your ISP information. When you finished the setting, please click the Submit button. The QoS setting is to set the voice packets' priority. If you set the value higher than 0, then the voice packets will get the higher priority to the Internet. But the QoS function still has to cooperate with the others Internet devices. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.7.1 Speed Dial Phone List

The screenshot shows a web-based configuration interface for a device. On the left is a vertical menu bar with the following items:

- Setup Wizard
- System Status
- Network
- SIP Settings
- Phone Book
- Speed Dial Settings
- Phone Settings
- Advance
- System

The "Phone Book" item is highlighted. The main area is titled "Phone Book" and contains the following text: "You could add/delete items in current phone book." Below this is a table with the following structure:

Phone	Name	URL	Select
0			<input type="checkbox"/>
1			<input type="checkbox"/>
2			<input type="checkbox"/>
3			<input type="checkbox"/>
4			<input type="checkbox"/>
5			<input type="checkbox"/>
6			<input type="checkbox"/>
7			<input type="checkbox"/>
8			<input type="checkbox"/>
9			<input type="checkbox"/>

At the bottom of the table are three buttons: "Delete Selected", "Delete All", and "Reset".

The Phone Book List can let user to setup the Speed Dial number. Recommend to input digit number for name. If you want to use Speed Dial you just dial the name then press "#". User can add/delete Speed Dial number and input maximum 140 entries speed dial list. User has to input the position, the name, and the phone number (by URL type) and click the "Add Phone" button.

If you want to delete a phone number, you can select the phone number you want to delete then click "Delete Selected" button.

If you want to delete all phone numbers, you can click "Delete All" button.

The process is when user dials number, the device will search from the phone book first and dial as the match number settings, if no found the match record, it will dial the number directly.

3.8.1 Call Forward

Forward Setting

You could set the forward number of your phone in this page.

All Forward:	<input checked="" type="radio"/> Off <input type="radio"/> IP <input type="radio"/> PSTN
Busy Forward:	<input checked="" type="radio"/> Off <input type="radio"/> IP
No Answer Forward:	<input checked="" type="radio"/> Off <input type="radio"/> IP <input type="radio"/> PSTN

	Name	URL/Number
All Fwd No.:		
Busy Fwd No.:		
No Answer Fwd No.:		

No Answer Fwd Time Out: 3 (2~8 Ring)

Submit **Reset**

User can setup the phone number you want to forward in this page. There are three type of Forward mode. User can choose All Forward, Busy Forward, and No Answer Forward.

All Forward: All incoming call will forward to the number you choose. User can input the name and the phone number in URL field. If you select this function, then all the incoming call will direct forward to the speed dial number you choose.

Busy Forward: If you are on the phone, the new incoming call will forward to the number you choose. User can input the name and the phone number in URL field.

No Answer Forward: If you can not answer the phone, the incoming call will forward to the number you choose. User can input the name and the phone number in URL field. Also you have to set the Time Out time for system to start to forward the call to the number you choose.

When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.8.2 Volume Settings

The screenshot shows a left sidebar with a navigation menu and a main content area titled "Volume Setting".

Left Sidebar (Navigation Menu):

- Setup Wizard
- System Status
- Network
- SIP Settings
- Phone Book
- Phone Settings** (highlighted in red)

 - Call Forward
 - Volume Settings** (highlighted in red)
 - DND Settings
 - Auto Answer
 - Caller ID
 - Dial Plan Setting
 - Flash Time Setting
 - Call Waiting Setting
 - T.38 (FAX) Setting
 - Hot line Setting
 - Alarm Settings

- Advance
- System

Main Content Area:

You could set the volume of your phone in this page.

Handset Volume:	<input type="text" value="10"/> (0~12)
PSTN-Out Volume:	<input type="text" value="10"/> (0~12)
Handset Gain:	<input type="text" value="10"/> (0~15)
PSTN-In Gain:	<input type="text" value="10"/> (0~15)

Buttons:

Bottom Bar:

Done Internet

User can setup the Handset Volume, Ringer Volume, and the Handset Gain. When you finished the setting, please click the Submit button.

Handset Volume is to set the volume for you can hear from the handset.

PSTN-Out Volume is to set the PSTN volume for you can hear.

Handset Gain is to set the volume send out to the other side.

PSTN-In Gain is to set the volume send out to the other side.

When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.8.3 DND Settings

The screenshot shows a left sidebar with a vertical list of settings categories: Setup Wizard, System Status, Network, SIP Settings, Phone Book, Phone Settings (with sub-options: Call Forward, Volume Settings, **DND Settings**, Auto Answer, Caller ID, Dial Plan Setting, Flash Time Setting, Call Waiting Setting, T.38 (FAX) Setting, Hot line Setting, Alarm Settings), Advance, and System. Below the sidebar is a main content area titled "DND Settings" with the sub-instruction "You could set the do not disturb period of your phone in this page." On the right, there are two sets of configuration fields. The first set, under "DND Always:", has radio buttons for "On" and "Off", with "Off" selected. The second set, under "DND Period:", also has radio buttons for "On" and "Off", with "Off" selected. Below these are two time input fields: "From: 00 : 22 (hh00m)" and "To: 00 : 44 (hh00m)". At the bottom right of the content area are "Submit" and "Reset" buttons. At the very bottom of the page is a toolbar with icons for "Done", "Internet", and other system-related functions.

User can setup the DND setting to keep the phone silence. You can choose Always Block or Block a period.

DND Always: All incoming call will be blocked until disable this feature.

DND Period: Set a time period and the phone will be blocked during the time period. If the “From” time is large than the “To” time, the Block time will from Day 1 to Day 2.

When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically..

3.8.4 Auto Answer

The screenshot shows a web-based configuration interface for a phone system. On the left, there's a vertical sidebar with several tabs: Setup Wizard, System Status, Network, SIP Settings, Phone Book, Phone Settings, Advance, and System. The 'Phone Settings' tab is currently selected, and under it, the 'Auto Answer' option is highlighted in red. The main content area is titled 'Auto Answer' and contains the following form fields:

Auto Answer:	<input checked="" type="radio"/> Off <input type="radio"/> On <input type="radio"/> Trunk Gateway
Auto Answer Counter:	<input type="text" value="3"/> (0~8)
PIN Code Enabled:	<input checked="" type="radio"/> Off <input type="radio"/> On
PIN Code:	<input type="text"/>

Below the form are two buttons: 'Submit' and 'Reset'. At the bottom of the page, there are standard browser navigation buttons for Back, Forward, Stop, and Refresh, along with a 'Done' button.

User can set the Auto Answer function to answer the incoming call by the phone. If the call is come from the IP, then the Gateway can let user to redial the call to PSTN phone number. If the call is coming from PSTN, then the Gateway can let user to redial to IP Phone number. Auto Answer Counter is to set after the ring counts meet the number you set then the auto answer will enable. For security issue, you'd better to set the PIN Code. If you have set the PIN code, you will hear a tone to inform you input the PIN Code then you can dial out. After you finish fill out the PIN code, you need press "#" key.

The **Trunk Gateway** feature need the SIP server provides this service. If user enable the Trunk Gateway function, can not set the ping code at same time.

3.8.5 Caller ID



User can set the device to show Caller ID in your PSTN Phone or IP Phone.

There are four selection of Caller ID. You have to base on your environment to set the Caller ID function for FSK or DTMF. When you change the setting, please also double check the PTT setting in others. You need to choose the correct country code then the Caller ID will be effect.

When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.8.6 Dial Plan Settings



User can set the dial plan route to IP or FXO port directly. Default is disable.

It provides IP or FXO auto dial route function and base on the Routing Rules. According to the dial plan, user can dial from IP or FXO port.

Routing Rule: Set the routing policy and user can use + to separate the rule.

For example, if the Routing rule : D007+009.

1. When dial 00722185357, base on the routing rule, it will auto drop 007 and dial 22185357, and refer to the Routing to: to choose the dial path.
2. When dial 00922185367, base on the routing rule, it will dial 00922185357 directly, and refer to the routing to: to choose the dial path.

This function is when you input the phone number by the keypad but you don't need to press "#". After time out the system will dial directly.

Symbols explain:

x or X	0,1,2,3,4,5,6,7,8,9
+	or

Replace rule: If replace prefix code is ON and prefix number is matched with rule then 005 will replace prefix.

Auto Dial Time: Stop dialing after seconds then send dial number out.

Dial Plan: When match with pattern then send dial number out but if first digit is '0' then dial plan will be ignored.

Example:

*xx	If matched with one of *00,*01....*99 then will send number out
#xx	If matched with one of #00,#01....#99 then will send number out
10x	If matched with one of 100,101....109 then will send number out
11x	If matched with one of 110,111....119 then will send number out
Xxxxxxxx	If dial with 8 digits then send number out

Auto Prefix: Number for add before dial number.

Prefix Unset Plan: When first digit or dial number match with pattern then ignore auto prefix.

0	Ignore auto prefix if first digit is '0'
1	Ignore auto prefix if first digit is '1'
xxxxx	dial numbers are 4 digits ignore auto prefix
xxxxxx	dial numbers are 5 digits ignore auto prefix

Dial Now: When user dial match the column, will dial directly.

When you finished the setting, please click the Submit button.

If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button.

The change you made will save into the system and the system will reboot automatically.

3.8.7 Flash Time Settings

Flash Time Setting

You could set the flash time in this page.

FXO Flash Time

Flash Time: x 10 ms (9~120)

FXS Flash Time

Max Flash Time: x 10 ms (4~255)

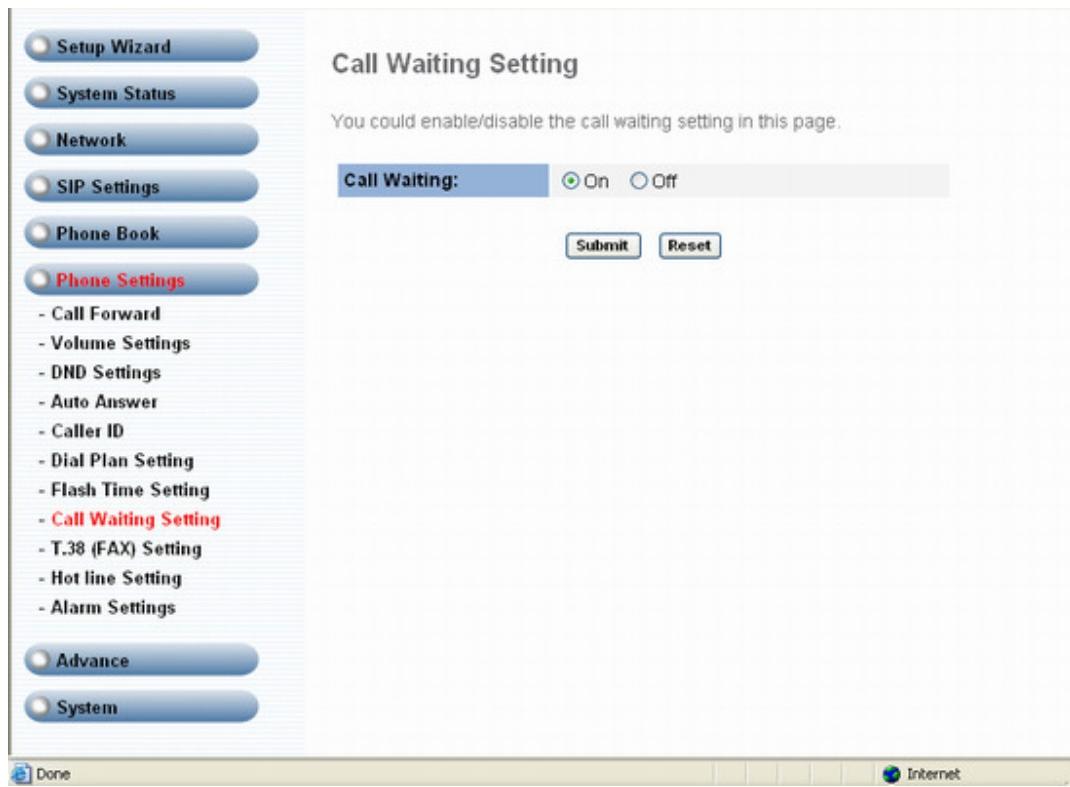
Min Flash Time: x 10 ms (7~12)

Submit **Reset**

Done Internet

When you use the PSTN Phone and you need to press the Hook to do the Flash (Switch to the other phone line or HOLD), this function is for you to set the time you press the Hook to represent the Flash function. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.8.8 Call Waiting Settings



User can Enable/Disable the Call Waiting function, when you are talking with someone, there is a new incoming call, and you will hear the call waiting tone. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.8.9 T.38 (FAX) Settings

The screenshot shows a web-based configuration interface for a device. On the left, there is a vertical navigation menu with the following items:

- Setup Wizard
- System Status
- Network
- SIP Settings
- Phone Book
- Phone Settings** (highlighted in red)

 - Call Forward
 - Volume Settings
 - DND Settings
 - Auto Answer
 - Caller ID
 - Dial Plan Setting
 - Flash Time Setting
 - Call Waiting Setting
 - T.38 (FAX) Setting** (highlighted in red)
 - Hot line Setting
 - Alarm Settings

- Advance
- System

At the bottom of the left sidebar, there is a "Done" button.

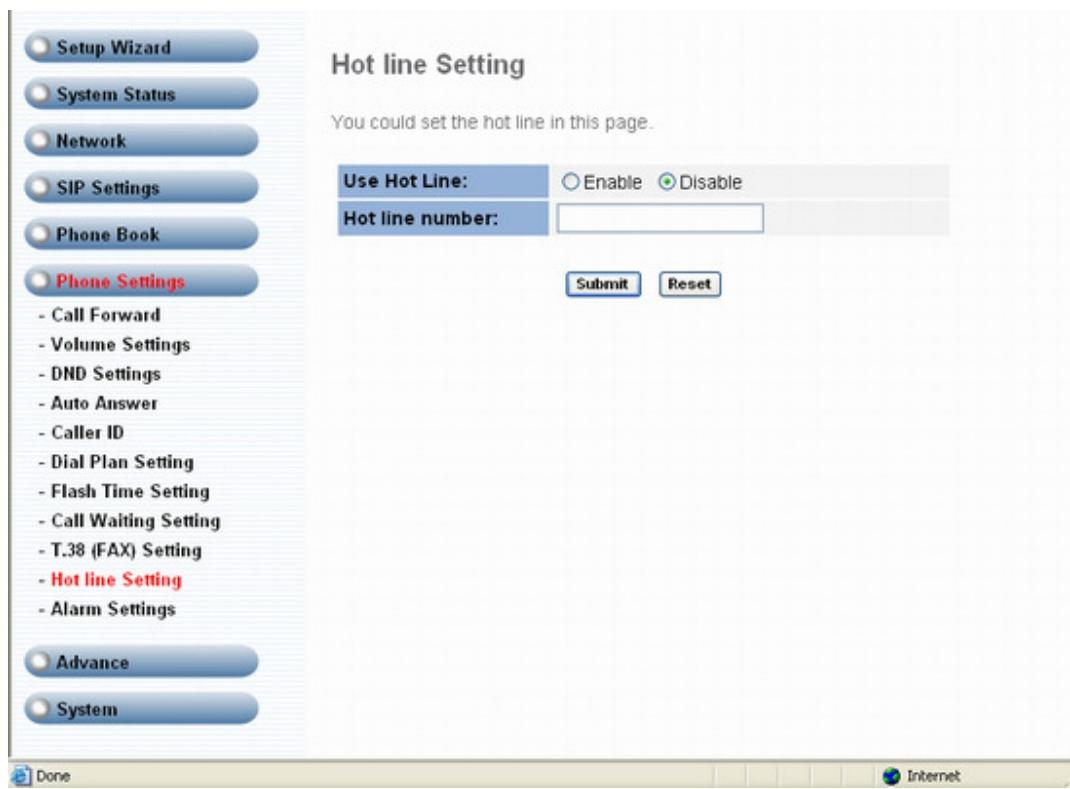
The main content area is titled "T.38 (FAX) Setting". It contains the following text: "You could enable/disable the FAX function in this page." Below this, there are two input fields:

T.38 (FAX):	<input checked="" type="radio"/> On <input type="radio"/> Off
T.38 Port:	20000 (1024~65533)

At the bottom right of the main content area are "Submit" and "Reset" buttons. At the very bottom of the window, there is a toolbar with icons for "Internet" and other system functions.

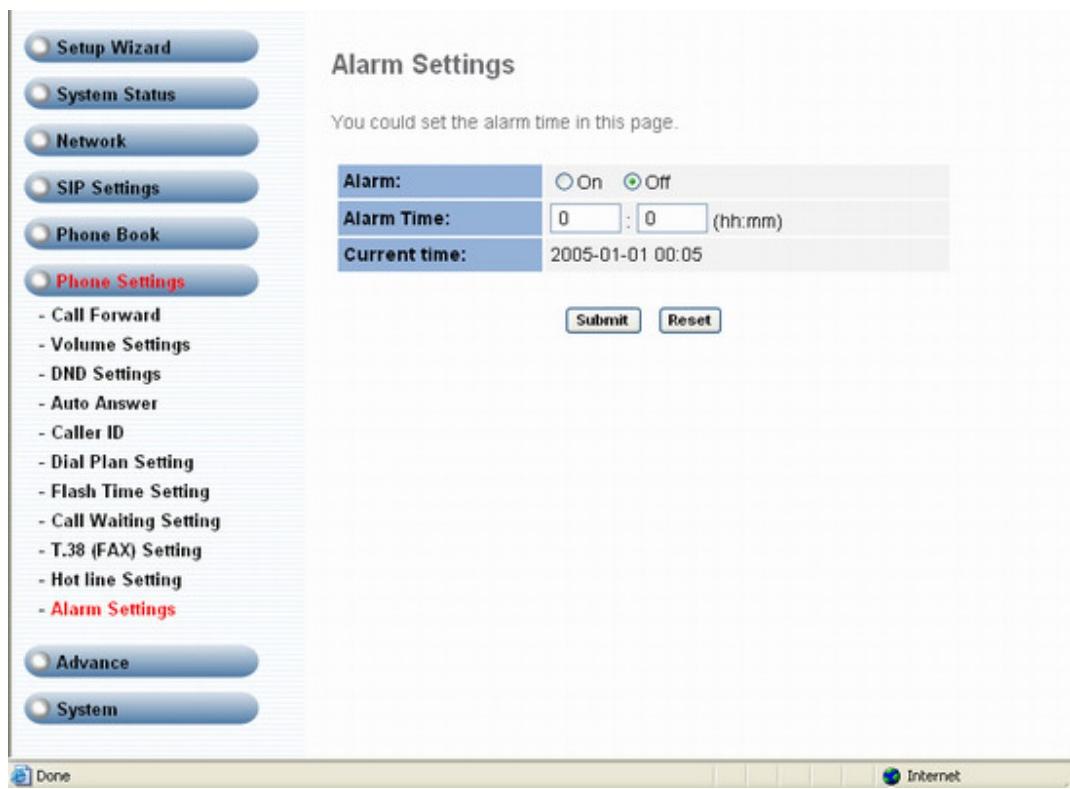
You can Enable/Disable the T.38 function. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.8.10 Hot line Settings



User can Enable/Disable the Hot line function, when you enable that; you can set a hot line number. While you pick up the phone, it will auto dial the number you set up. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.8.11 Alarm Settings



User can set the time to alarm via the VoIP ATA. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.9.1 Auto Config

The screenshot shows the 'Auto Configuration Setting' page. On the left, a vertical menu bar lists several options: Setup Wizard, System Status, Network, SIP Settings, Phone Book, Phone Settings, Advance (with 'Auto Config' highlighted in red), SNTP Settings, FXO & FXS Port, Tones Settings, Advanced Setting, MAC Clone Setting, and System. Below the menu is a 'Done' button. The main content area is titled 'Auto Configuration Setting' and contains the following fields:

Auto Configuration:	<input checked="" type="radio"/> Off <input type="radio"/> TFTP <input type="radio"/> FTP <input type="radio"/> HTTP
TFTP Server:	[Text input field]
HTTP Server:	[Text input field]
HTTP Path:	[Text input field]
FTP Server:	[Text input field]
FTP Username:	[Text input field]
FTP Password:	[Text input field containing '*****']
File Path:	[Text input field]

At the bottom right are 'Submit' and 'Reset' buttons. At the very bottom of the page is a toolbar with icons for 'Internet' and other system functions.

User can setup the Auto Configuration Enable/Disable and auto configuration by FTP or TFTP. You need to select the way to do the Auto Configuration and set the Server IP address in this page. This function can automatically download the configure file to setup your Gateway.

When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.9.2 SNTP Settings

The screenshot shows a left sidebar with a vertical list of navigation items:

- Setup Wizard
- System Status
- Network
- SIP Settings
- Phone Book
- Phone Settings
- Advance** (highlighted in red)

 - Auto Config
 - SNTP Settings** (highlighted in red)
 - FXO & FXS Port
 - Tones Settings
 - Advanced Setting
 - MAC Clone Setting

- System

The main content area is titled "SNTP Settings" and contains the following form fields:

SNTP:	<input checked="" type="radio"/> On <input type="radio"/> Off
Primary Server:	time.windows.com
Secondary Server:	208.184.49.9
Time Zone:	GMT + <input type="button" value="00"/> : <input type="button" value="00"/> (hh:mm)
Sync. Time:	<input type="button" value="1"/> : <input type="button" value="0"/> : <input type="button" value="0"/> (dd:hh:mm)

At the bottom right of the form are "Submit" and "Reset" buttons.

The status bar at the bottom of the window shows "Done" and "Internet".

User can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.9.3 FXO & FXS Port

FXO & FXS Impedance Setting

You could select the FXO & FXS impedance of the analog telephone by different country in this page.

FXO Port: TBR21

FXS Port: TBR21

Submit **Reset**

User can setup the FXO or FXS in this page. When you are using different country's PSTN Phone, you have to set the country's setting to meet the requirement. When you finished the setting, please click the Submit button.

3.9.4 Tones Settings

	Dial Tone	Ring Back Tone	Busy Tone	Error Tone	Ring Tone	Insert Tone
Cadence On:	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Hi-Tone Freq.:	440	480	620	620	480	440
Lo-Tone Freq.:	350	440	480	480	440	350
Hi-Tone Gain:	4522	2261	2261	2261	15360	2261
Lo-Tone Gain:	2261	2261	2261	2261	15360	1130
On Time 1:	0	200	50	30	200	30
Off Time 1:	0	400	50	20	400	20
On Time 2:	0	0	0	0	0	30
Off Time 2:	0	0	0	0	0	400
On Time 3:	0	0	0	0	0	0
Off Time 3:	0	0	0	0	0	0

User can set the VoIP Tone parameters in this page. You can check with the ISP for the detail value about the Tone. You can set the Dial tone, Ring back tone, Busy tone, Error tone, Ring tone and Insert tone. If no need, please don't change the settings in this page. The value for each column can be 0 ~ 99999.

3.9.5 Advanced Settings

The screenshot shows the 'Advanced Setting' page of a phone's configuration interface. On the left, there is a vertical navigation bar with the following items:

- Setup Wizard
- System Status
- Network
- SIP Settings
- Phone Book
- Phone Settings
- Advance** (highlighted in red)

 - Auto Config
 - SNTP Settings
 - FXO & FXS Port
 - Tones Settings
 - Advanced Setting** (highlighted in red)
 - MAC Clone Setting

- System

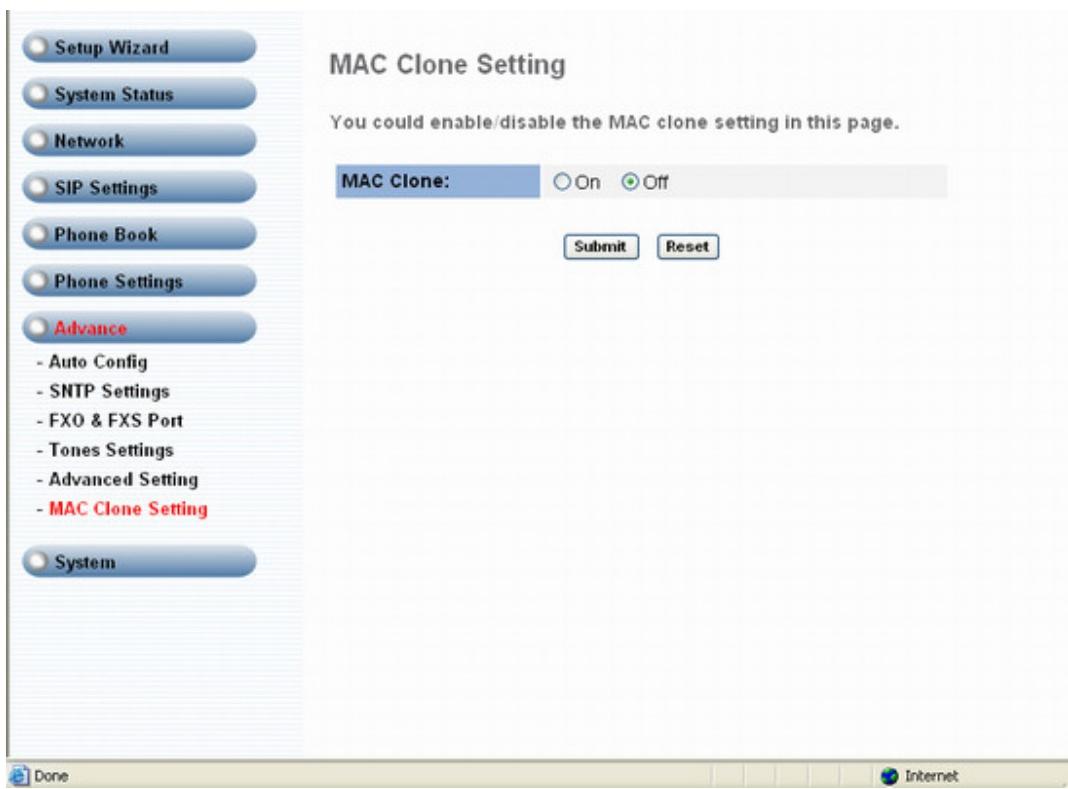
The main content area is titled 'Advanced Setting' and contains the following configuration options:

ICMP Not Echo:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Send Anonymous CID:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Management from WAN:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Billing Signal:	Disabled
CPC Delay:	2 (2~5 Seconds)
CPC Duration:	0 x 10 ms (0~120)
Send Flash event:	Disabled
SIP Encrypt:	Disabled
PPPoE retry period:	5 Seconds
System Log Server:	[Text input field]
System Log Type:	None

At the bottom of the page are two buttons: 'Submit' and 'Reset'. The status bar at the bottom of the screen shows 'Done' and 'Internet'.

User can setup the ICMP echo, Send Anonymous CID, Management from WAN in this page. If you enable the "Send Anonymous CID", it will hide the phone number from the send side; the receiver will not show the phone number at the LED pad of phone. The Polarity Reversal can support the billing system, if user wants to cooperate with the billing system. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.9.6 MAC Clone Settings



User can setup the MAC Clone Enable/Disable in this page. This function can auto clone the PC's LAN card MAC address to the WAN port for some ISP lock the PPPoE client's MAC address. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.10.1 System Authority

The screenshot shows a web-based configuration interface for a device. On the left, there is a vertical navigation menu with the following items:

- Setup Wizard
- System Status
- Network
- SIP Settings
- Phone Book
- Phone Settings
- Advance
- System** (highlighted in red)
- System Authority
- Save Changes
- Upgrade Firmware
- Default Settings
- Reboot System

The main content area is titled "System Authority" and contains the following text: "You could change the login username/password in this page." Below this, there are three input fields:

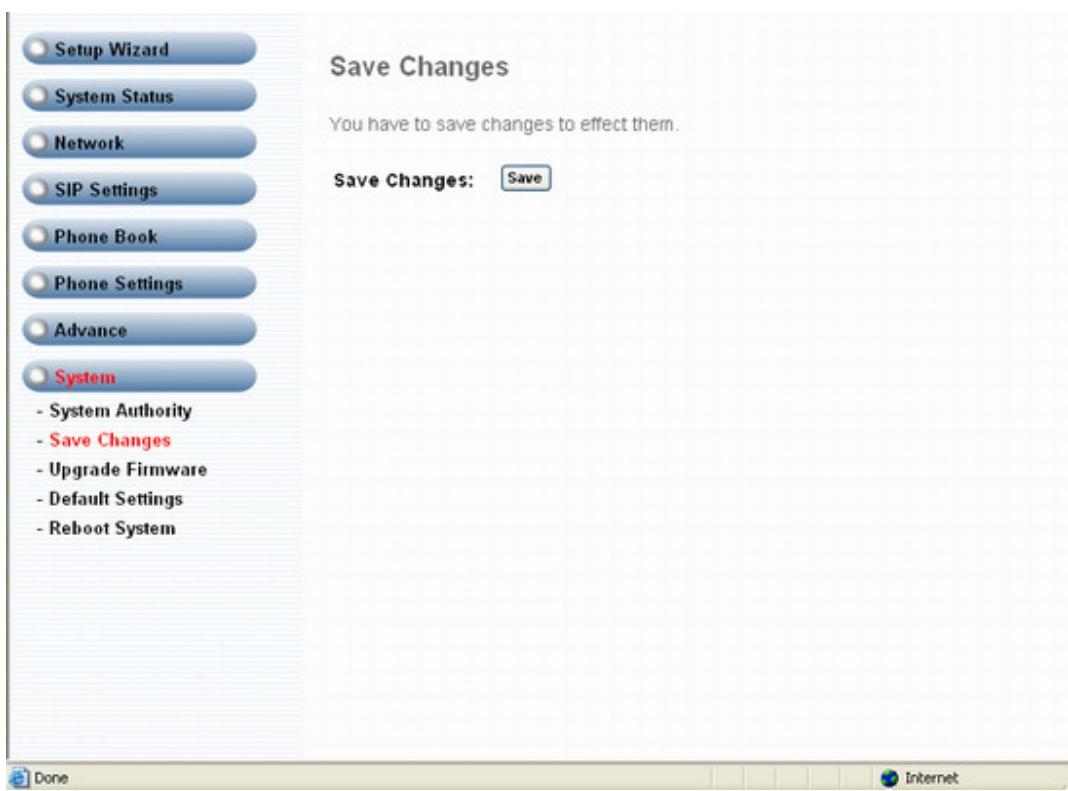
New username:	<input type="text"/>
New password:	<input type="password"/>
Confirmed password:	<input type="password"/>

At the bottom of the form are two buttons: "Submit" and "Reset".

At the very bottom of the window, there is a toolbar with icons for "Done" and "Internet".

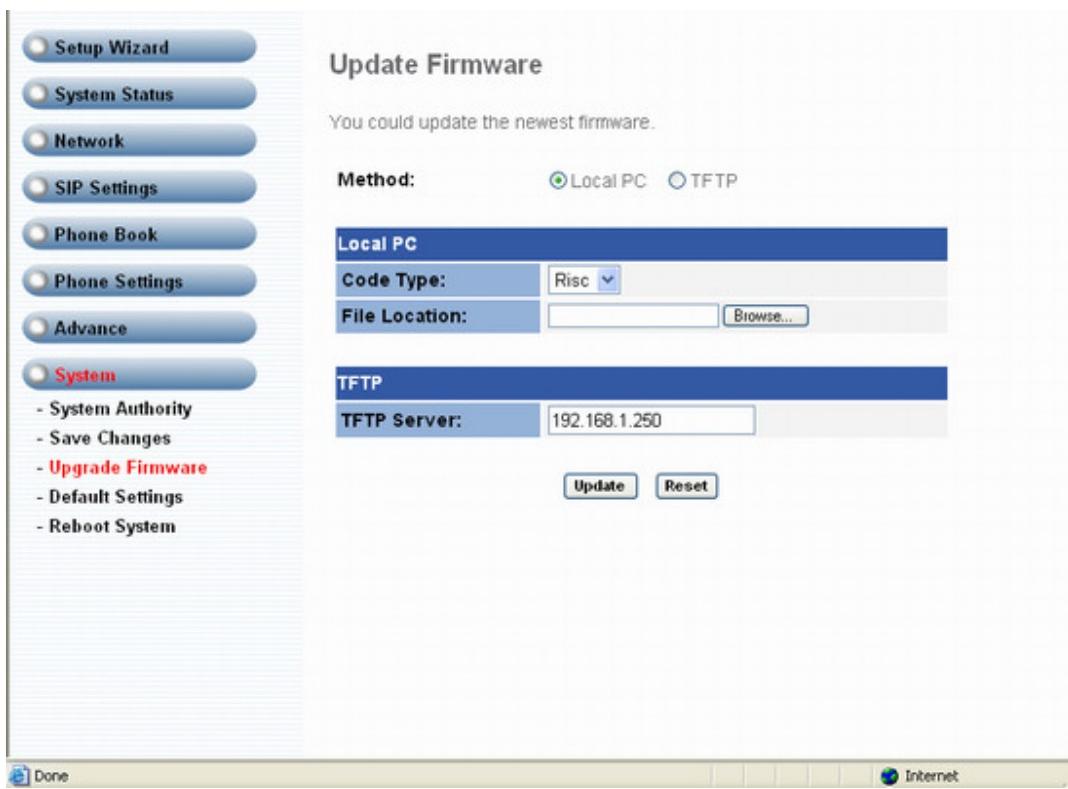
User can change your login name and password. When you finished the setting, please click the Submit button. If there is nothing need to change, please click the Save Change Item in the left side, then click the Save button. The change you made will save into the system and the system will reboot automatically.

3.10.2 Save Changes



User can save the changes you have done. If you want to use new setting in the Gateway, You have to click the Save button. After you click the Save button, the Gateway will automatically restart and the new setting will effect.

3.10.3 Update Firmware

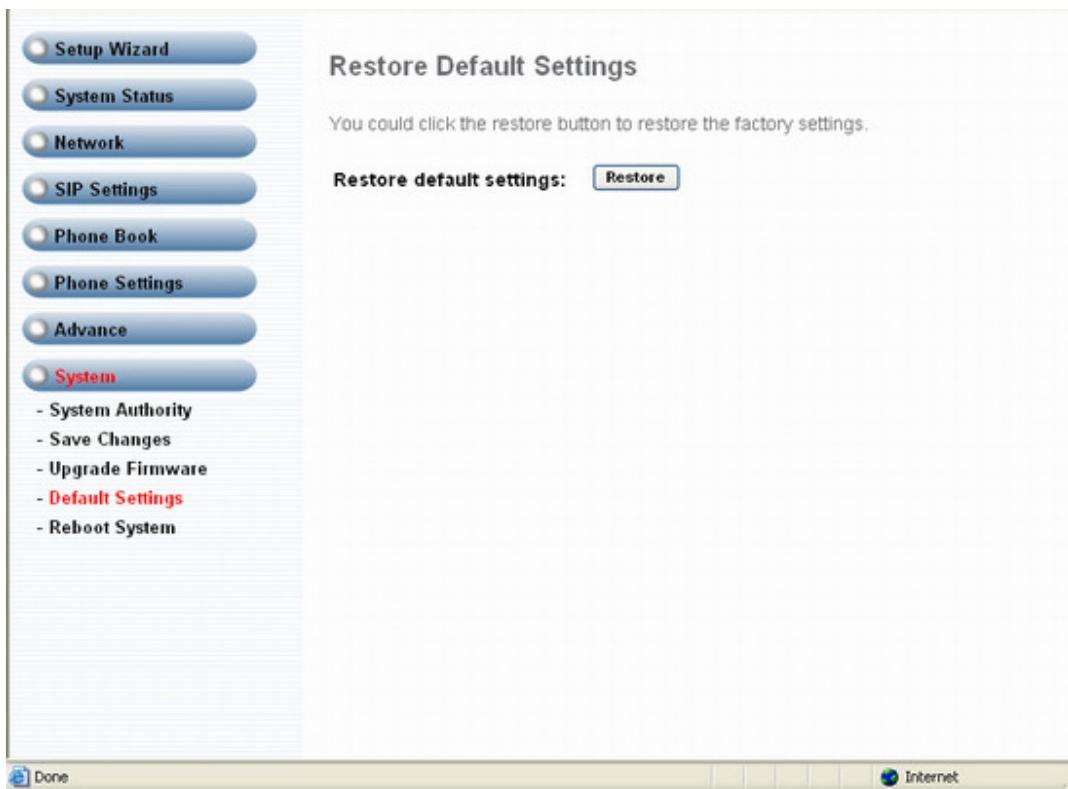


User can update the Gateway's firmware to the new one or do the “factory reset” to let the device back to default setting.

In New Firmware function you can update new firmware via HTTP in this page. You can upgrade the firmware by the following steps:

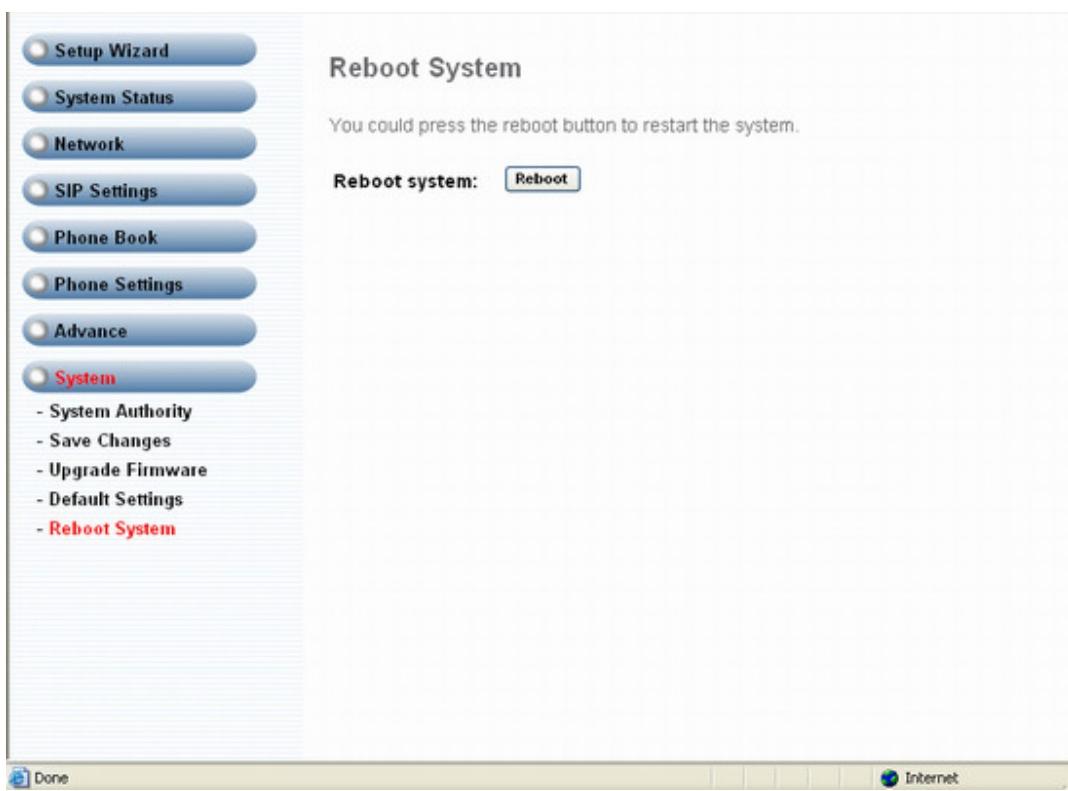
1. Select the firmware code type, Risc or DSP code.
2. Click the “Browse” button in the right side of the File Location or you can type the correct path and the filename in File Location blank.
3. Select the correct file you want to download to the TA then click the Update button.
4. After finished the update firmware process, the system will reboot automatically.

3.10.4 Default Settings



User can restore the device to factory default in this page. You can just click the Restore button, and then the device will restore to default and automatically restart again. The Default Setting will be NAT Mode, WAN port is set as DHCP Client Mode, LAN port is Fixed IP Mode and the IP Address is 192.168.3.1.

3.10.5 Reboot System



User can restart the device. If you want to restart the device, you can just click the Reboot button, and then the device will reboot automatically.

3.11.1 Interactive Voice Response (IVR) interface for the Gateway

User can use the PSTN phone to configure the device. Please follow the instruction to configure your terminal adapter.

Group	IVR Action	IVR Menu Choice	Parameter(s)	Notes
Function	enable call waiting	#138#	None	Enable Call waiting
Function	disable call waiting	#139#	None	Disable call waiting
Function	unlock keypad	#190#	None	You have to unlock keypad first, and then you can change the setting by keypad.
Function	lock keypad	#191#	None	Lock keypad.
Function	Reboot	#195#	None	The system will reboot automatically.
Function	Factory Reset	#198#	None	System will automatically Reboot and restore to default setting. WARNING: ALL "User-Changeable" NONDEFAULT SETTINGS WILL BE LOST! This will include network and service provider data.
Info	Check IP Address	#120#	None	IVR will report the LAN port IP address
Info	Check IP Type	#121#	None	IVR will report the WAN Port DHCP is enabled or disabled.
Info	Check the Phone Number	#122#	None	IVR will report current in use VoIP number
Info	Check Network Mask	#123#	None	IVR will report the WAN Port network mask
Info	Check Gateway IP Address	#124#	None	IVR will report the WAN Port gateway IP address
Info	Check Primary DNS Server Setting	#125#	None	IVR will report the WAN Port Primary DNS server IP Address.
Info	Check IP Address	#126#	None	IVR will report the WAN port IP address
Info	Check Firmware Version	#128#	None	IVR will report the firmware version
Setting	Set DHCP client	#111#	None	The system will change the WAN port to DHCP Client type
Setting	Set Static IP Address	#112xxx*xxx*x	Enter IP address	WAN port DHCP Client will be

		xx*xxx#	using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.	disabled and WAN port will change to the Static IP type. Set WAN port IP Address
Setting	Set Network Mask	#113xxx*xxx*x xx*xxx#	Enter value using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.	Must set Static IP first. Set WAN port Network Mask
Setting	Set Gateway IP Address	#114xxx*xxx*x xx*xxx#	Enter IP address using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.	Must set Static IP first. Set WAN port Gateway IP Address
Setting	Set Primary DNS Server	#115xxx*xxx*x xx*xxx#	Enter IP address using numbers on the telephone key pad. Use the * (star) key when entering a decimal point.	Must set Static IP first. Set WAN port Primary DNS Server IP Address
Setting	Set Codec	#130+[1-8]#	1:G.711 u-Law, 2: G.711 a-Law, 3: G.723.1, 4: G.729a, 5: G.726 16K, 6: G.726 24K, 7: G.726 32K, 8: G.726 40K,	You can set the codec you want to the first priority.
Setting	Set Handset Gain	#131+[00~15]#	Handset Gain from 0~15	You can set the Handset gain to proper value, default is 10

Setting	Set Handset Volume	#132+[00~12]#	Handset Volume from 0~12	You can set the Handset volume to proper value, default is 10
Setting	TFTP Server IP Address	#135#	Set Auto configure TFTP Server IP Address	You can set the TFTP Server IP address
Setting	FTP Server IP Address	#136#	Set Auto configure FTP Server IP Address	You can set the FTP Server IP address
Setting	Auto configure mode	#137+[0~2]#	0: Disable, 1: TFTP mode, 2: FTP mode	You can set the Auto configuration mode, 0: Disable, 1: use TFTP Server, 2: user FTP Server
Setting	Blind transfer	flash#510# Phone no.#	None	B call A, and A transfer the call to C, A need to press flash button and then press #510#(phone no. of C)#+, while A hung up the phone, then call transfer the call to B and C.
Setting	Attendant transfer	flash#511# Phone no.#	None	B call A, and A transfer the call to C, A need to press flash button and then press #511#(phone no. of C)#+, call establish between A and C. While A hung up the phone then call transfer to B and C.
Setting	3-way-calling	flash#512# Phone no.# flash	None	B call A, and A transfer the call to C, A need to press flash button and then press #512#(phone no. of C)#+, while C pick up the phone, A need to press flash again, and then begin 3-way conference..
Setting	PSTN mode	0*	Set default use PSTN mode	Provide setting change default setting to PSTN mode
Setting	Realm Switch	1* 2* 3*	None	You can change different realm for outgoing call.

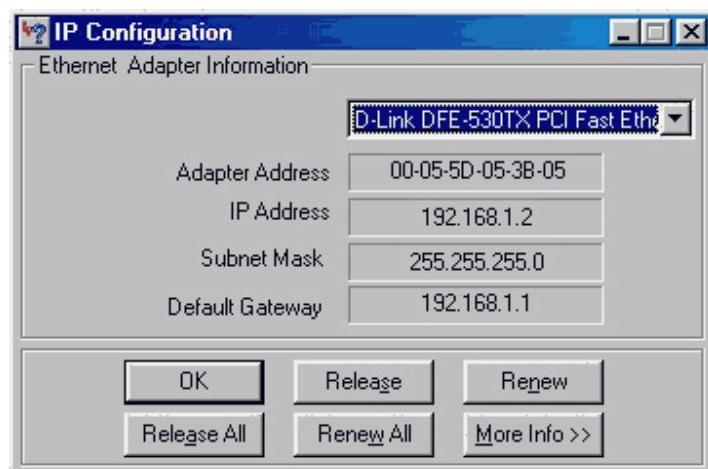
3.12.1 TCP/IP Settings for Windows Operating System

1. How can I find my IP Address in Windows 95, 98, or Me?

- Click on **Start**, then click on **Run**.
- The Run Dialogue Box will appear. Type **winipcfg** in the window as shown then click OK



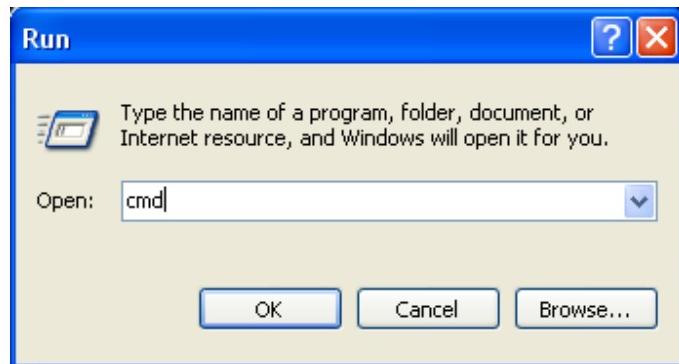
- The **IP Configuration** window will appear, displaying your **Ethernet Adapter Information**.
- Select your adapter from the drop down menu.
- If you do not see your adapter in the drop down menu, your adapter is not properly installed.



- After selecting your adapter, it will display your IP Address, subnet mask, and default gateway.
- Click **OK** to close the IP Configuration window.

2. How can I find my IP Address in Windows 2000/XP?

- Click on **Start** and select **Run**.
- Type **cmd** then click **OK**.



- From the Command Prompt, enter **ipconfig**. It will return your IP Address, subnet mask, and default gateway.

A screenshot of a Windows Command Prompt window titled 'D:\WINNT\system32\CMD.EXE'. The window shows the following output:

```
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

D:\>ipconfig

Windows 2000 IP Configuration

Ethernet adapter Local Area Connection:

  Connection-specific DNS Suffix . :
  IP Address . . . . . : 192.168.0.174
  Subnet Mask . . . . . : 255.255.255.0
  Default Gateway . . . . : 192.168.0.1

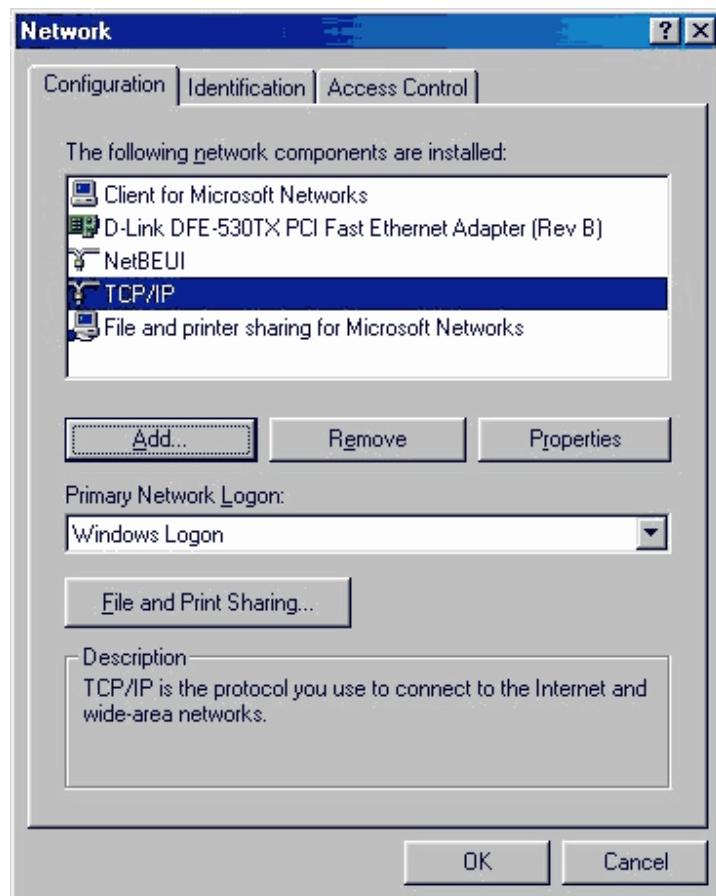
D:\>_
```

The window has a standard Windows look with a title bar, minimize, maximize, and close buttons. The text is white on a black background.

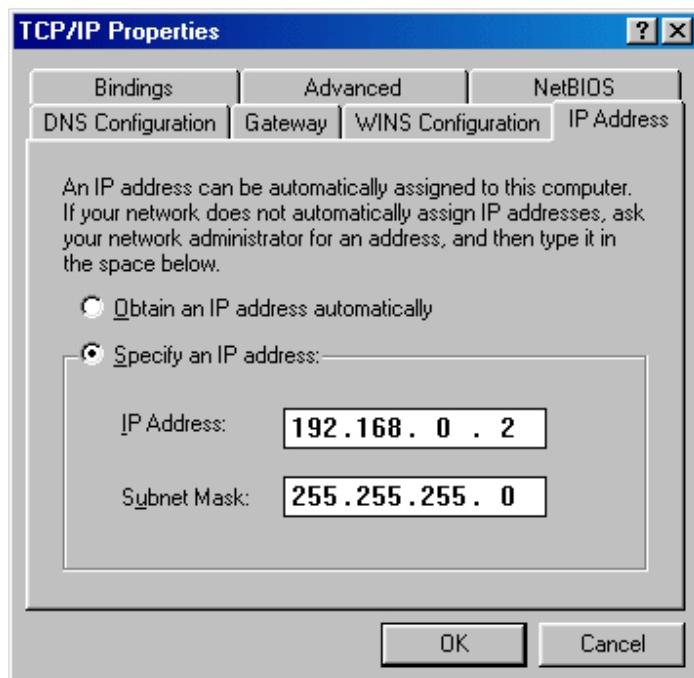
- Type exit to close the command prompt.
- Make sure you take note of your computer's Default Gateway IP Address. The Default Gateway is the IP Address of the router. By default, it should be 192.168.0.1

3. How can I assign a Static IP Address in Windows 98/Me?

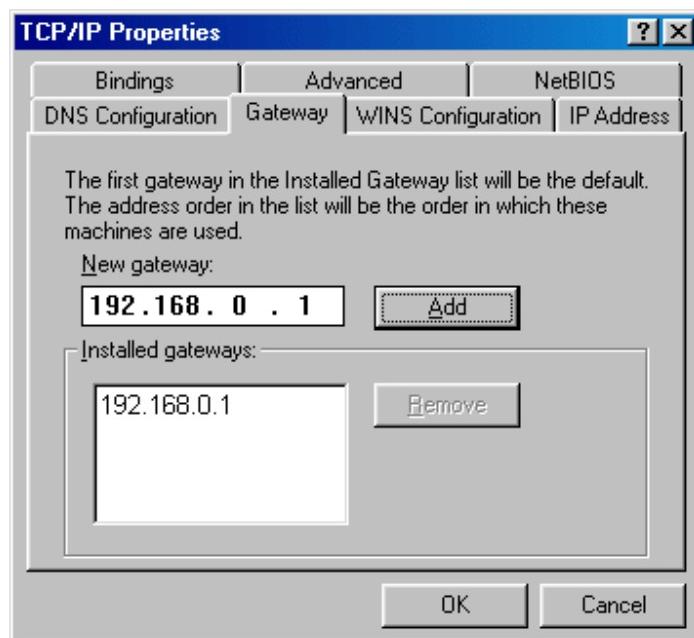
- From the desktop, right-click on the **Network Neighborhood** icon (Win ME - My Network Places) and select **Properties**.
- Highlight **TCP/IP** and click the **Properties** button. If you have more than 1 adapter, then there will be a TCP/IP “Binding” for each adapter. Highlight **TCP/IP > (your network adapter)** and then click **Properties**.



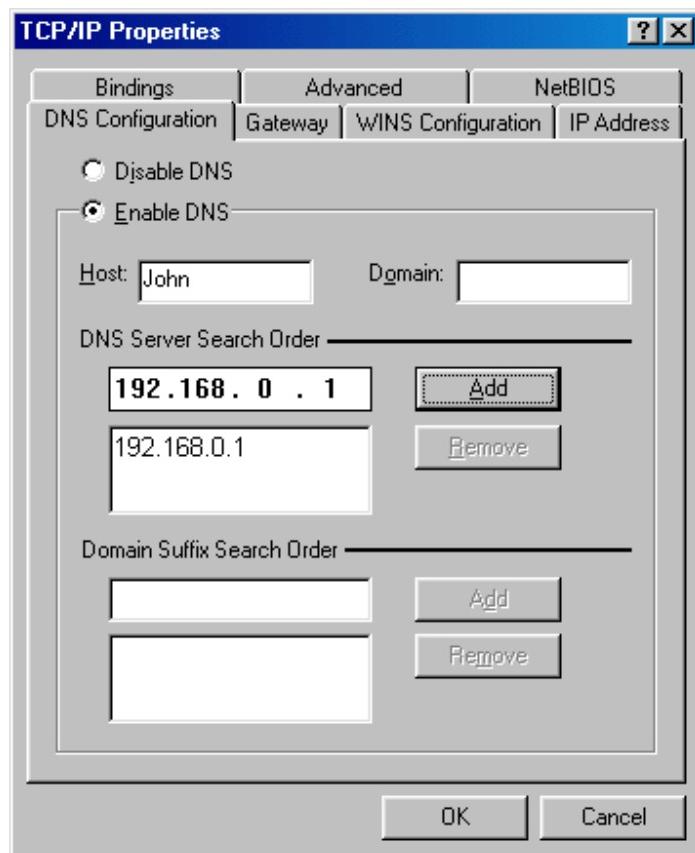
- Click **Specify an IP Address**.
- Enter in an IP Address that is on the same subnet as the LAN IP Address on your router. Example: If the router's LAN IP Address is 192.168.0.1, make your IP Address 192.168.0.X where X is between 2-99. Make sure that the number you choose is not in use on the network.



- Click on the **Gateway** tab.
- Enter the LAN IP Address of your router here (192.168.0.1).
- Click **Add** when finished.



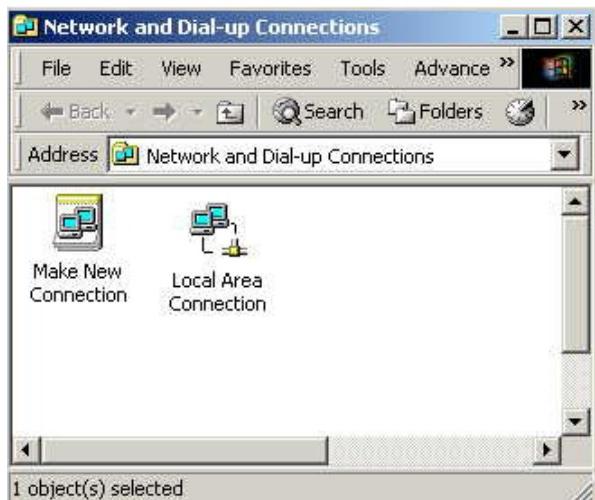
- Click on the **DNS Configuration** tab.
- Click **Enable DNS**. Type in a **Host** (can be any word). Under DNS server search order, enter the LAN IP Address of your router (192.168.0.1). Click **Add**.



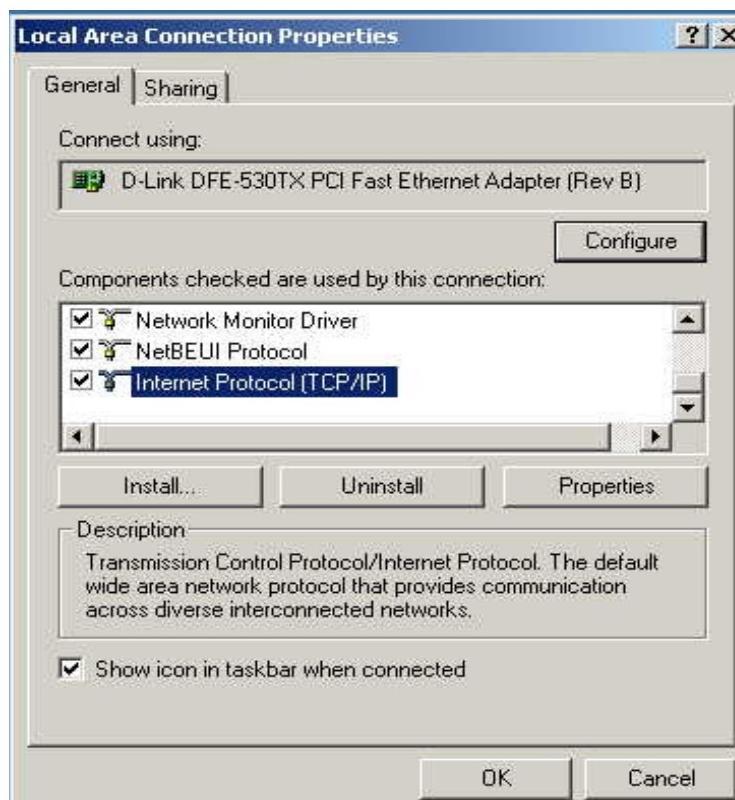
- Click **OK** twice.
- When prompted to reboot your computer, click **Yes**. After you reboot, the computer will now have a static, private IP Address.

4. How can I assign a Static IP Address in Windows 2000?

- Right-click on **My Network Places** and select **Properties**.
- Right-click on the **Local Area Connection** which represents your network card and select **Properties**.



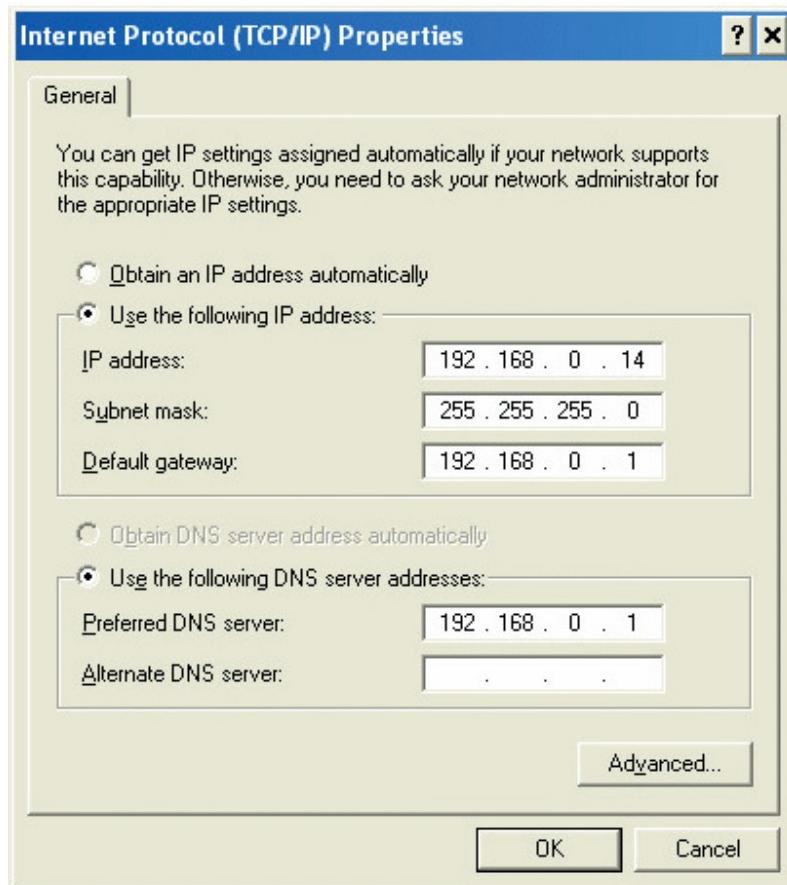
- Highlight **Internet Protocol (TCP/IP)** and click **Properties**.



- Click **Use the following IP Address** and enter an IP Address that is on the same subnet as the LAN IP Address on your router. Example: If the router's LAN IP Address is 192.168.0.1, make your IP Address 192.168.0.X where X = 2-99. Make sure that the number you choose is not in use on the network.
- Set the **Default Gateway** to be the same as the LAN IP Address of your router (192.168.0.1).
- Set the **Primary DNS** to be the same as the LAN IP address of your router (192.168.0.1).
- **The Secondary DNS** is not needed or enter a DNS server from your ISP.
- Click **OK** twice. User may be asked if you want to reboot your computer. Click **Yes**.

5. How can I assign a Static IP Address in Windows XP?

- Click on **Start > Control Panel > Network and Internet Connections > Network connections**.
- See the steps for assigning a static IP address in Windows 2000 and continue from there.



- Access the Web management. Open your Web browser and enter the IP Address of your router device in the address bar. This should open the login page for the Web management. Follow instructions to login and complete the configuration.

Appendix A SIP Code list for the popular SIP server

The SIP Code list is refer to <http://www.sipbroder.com> , you can check from them directly.

Via the SIP code, user can dial to the different SIP server number directly and can connect to the other SIP number smoothly.

SIP-Code	SIP Proxy	Provider name
✓ *010	us.voxalot.com	VoXaLot (U.S.)  [Home]
✓ *011	sipbroker.com	SIPBroker Alias Server [Home]
✗ *012	public.tello.com	ISN/ITAD Routing  [Home]
✓ *013	sipbroker.com	SIPBroker ENUM Server [Home]
✓ *018	gtalk2voip.com	GTalk2VoIP [Home]
✗ *027	zero27.net	zero27.net
✓ *031	eu.voxalot.com	VoXaLot (Europe)  [Home]
✓ *061	au.voxalot.com	VoXaLot (Australia)  [Home]

✓ *201	voip.brujula.net	Brujula.Net [Home] [Rates]
✗ *202	sipsrv1.thinkingvoice.com	sipsrv1.thinkingvoice.com
✓ *203	triton.voxee.com	triton.voxee.com
✗ *204	dialnet.pl	dialnet.pl [Home] [Rates]
✗ *205	sip.web.de	sip.web.de
✗ *206	sip.phonecowboy.com	sip.phonecowboy.com
✗ *207	baltictender.com	baltictender.com
✓ *208	sip.faktortel.com.au	FaktorTel [Home] [Rates]
✓ *210	proxy.freecall.net.au	Freecall [Home] [Rates]
✗ *211	sipgate.co.uk	Sipgate [Home] [Rates]
✗ *213	calamar0.nikotel.com	calamar0.nikotel.com [Home] [Rates]
✓ *214	gateway.swiazu.ru	gateway.swiazu.ru
✗ *215	sip.peoplecall.com	Peoplecall [Home] [Rates]
✗ *217	tel.lu	tel.lu
✗ *218	sip.sao.conexion.com.br	ConexionGroup [Home]
✗ *219	sip.broadcast.us	YO! telecom [Home]
✓ *220	sip.oiptel.com	sip.oiptel.com
✗ *221	xtremex.com	xtremex.com
✗ *222	sip.abbeyphone.com	Abbeypone [Home] [Rates]
✗ *223	sip.stanaphone.com	StanaPhone [Home] [Rates]
✓ *224	sip.unict.it	sip.unict.it
✓ *225	sip.kak-networks.net	sip.kak-networks.net
✓ *226	register.voipgate.com	register.voipgate.com
✓ *227	musimi.dk	Musimi [Home] [Rates]
✓ *229	sip.utlcorp.ru	sip.utlcorp.ru
✗ *230	sip.tpa2.telephony.net	Endavo
✓ *231	desh.alapony.com	alapony
✓ *232	rebals.com	rebals.com
✓ *233	sip.pacificvoice.net.au	sip.pacificvoice.net.au
✗ *234	sip.pennytel.com	sip.pennytel.com [Home] [Rates]
✓ *235	sip.netrex.nl	sip.netrex.nl
✓ *236	eurovoice.ro	Euroweb Romania SA [Home] [Rates]
✓ *237	as.bw.iprimus.net	as.bw.iprimus.net [Home] [Rates]
✗ *238	sip.myfone.com.au	sip.myfone.com.au [Home]
✓ *239	voip.macronet.ro	voip.macronet.ro
✓ *240	plasma.digitalvoice.ca	plasma.digitalvoice.ca
✗ *241	pbx.ewingit.com.au	Ewing IT - PBX [Home]
✓ *243	sip.gosb.com.tr	sip.gosb.com.tr [Home]
✓ *244	tellyfone.com	tellyfone.com
✗ *245	sip.freeipcall.com	sip.freeipcall.com
✗ *246	sip.naturalvoice.us	sip.naturalvoice.us
✗ *247	sip.freshtel.net	Freshtel [Home] [Rates]
✓ *248	voip.wengo.fr	Wengo [Home] [Rates]
✓ *249	bwcomm.com	bwcomm.com
✓ *250	sip.voipbg.com	sip.voipbg.com
✓ *251	sip.voipblue.com	sip.voipblue.com [Home] [Rates]

✓ *252	sip.packetnet.be	Packetnet [Home] [Rates]
✓ *253	gw01.transtech.dk	Transtech Communication Solutions [Home] [Rates]
✓ *254	sip.serverhallen.com	sip.serverhallen.com [Home] [Rates]
✗ *255	sip.intlno.com	INX Global Internet Phone Service [Home] [Rates]
✓ *256	sip.gosbteknopark.com	sip.gosbteknopark.com
✗ *257	sipgate.at	sipgate.at [Home] [Rates]
✓ *258	voiptalk.org	voiptalk.org [Home] [Rates]
✓ *259	sip.therana.com	sip.therana.com
✗ *260	tw.a-voize.com	tw.a-voize.com
✓ *261	draytel.org	draytel.org [Home] [Rates]
✗ *262	asterisk.chuljin.com	asterisk.chuljin.com
✓ *263	messaging.banana.org.uk	messaging.banana.org.uk
✓ *264	sip.bon.net	sip.bon.net
✗ *265	byo.engin.com.au	Engin [Home] [Rates]
✓ *266	blueface.ie	blueface.ie [Home] [Rates]
✗ *267	host-80-80-143-128.winetbg.com	sip bulgaria
✓ *268	gw2.austechpartnerships.com	gw2.austechpartnerships.com
✓ *269	sip03.astrasip.com.au	Astratel [Home] [Rates]
✓ *270	voicegw.microvoxnet.com	voicegw.microvoxnet.com
✗ *271	voice.miyu.org	voice.miyu.org
✗ *272	sip2.bbpglobal.com	BBPGlobal [Home] [Rates]
✓ *273	sip.lugs.ch	sip.lugs.ch
✓ *274	sip.xphone.cz	XPHONE
✓ *275	sipbroker.com	SIPBroker
✓ *276	me-soft.com	me-soft.com
✗ *277	bsmu.edu.ua	bsmu.edu.ua
✗ *278	sip.ipworldcom.ch	sip.ipworldcom.ch [Home]
✗ *279	sip.tlenofon.pl	sip.tlenofon.pl
✗ *280	sip.net2phone.com	sip.net2phone.com [Home]
✓ *281	sailer.dynip.lugs.ch	sailer.dynip.lugs.ch
✗ *282	sip.broadvoice.com	VoIPteq [Home] [Rates]
✓ *283	northamerica.sipphone.com	northamerica.sipphone.com
✓ *284	gw1.austechpartnerships.com	gw1.austechpartnerships.com
✗ *285	sip.calluk.com	sip.calluk.com
✓ *286	sip.markregis.com	sip.markregis.com
✓ *287	stun.rnktel.com	stun.rnktel.com
✓ *288	sip2.sipservers.net	LiveVoip
✓ *289	demo.winco.com.hk	demo.winco.com.hk
✓ *290	sip.myasterisk.net	sip.myasterisk.net
✓ *291	sip2.oztralia.com	sip2.oztralia.com
✗ *292	sip.easycall.pl	sip.easycall.pl
✗ *293	sip.netcall.pt	Netcall [Home] [Rates]
✗ *294	sipsg.fpt.vn	sipsg.fpt.vn
✓ *295	ftp.tngg.ru	ftp.tngg.ru
✗ *296	sip.internode.on.net	NodePhone [Home] [Rates]
✗ *297	sip.gotalk.com	sip.gotalk.com [Home]

✓ *298	telio.no	telio.no  [Home] [Rates]
✓ *299	sip.gillins.net	sip.gillins.net
✗ *301	sip.ifone.com.au	sip.ifone.com.au
✗ *302	voip.lightspeed.ca	voip.lightspeed.ca
✓ *303	sip.simtex.com.au	sip.simtex.com.au
✓ *304	sip2go.com	sip2go.com
✗ *305	telefonip.dialnet.pl	telefonip.dialnet.pl
✓ *306	register.rnktel.com	register.rnktel.com
✗ *308	sip.actio.pl	Actio  [Home]
✓ *309	lon-pbx-1.gradwell.com	gradwell.com [Home] [Rates]
✗ *310	nl.voipplanet.nl	nl.voipplanet.nl
✓ *311	iptel.gr	iptel.gr [Home]
✗ *312	ipbx.i2sc.com	ipbx.i2sc.com
✗ *313	sip.imaginaryplace.net	sip.imaginaryplace.net
✗ *314	iax.fwdnet.net	iax.fwdnet.net
✗ *315	chat.brain.net.pk:8891	chat.brain.net.pk
✗ *316	sip.worldsip.com	sip.worldsip.com 
✓ *317	inphonex.com	budgetphone.nl  [Home] [Rates]
✓ *318	ixcall.net	ixcall.net  [Home]
✗ *319	sip.wnet.ro	wnet.ro
✓ *320	sip.sipme.com.au	SipMe  [Home] [Rates]
✓ *321	magnytude.com	magnytude.com
✓ *322	llamadaip.zapto.org	llamadaip.zapto.org  [Home] [Rates]
✓ *323	rienpost.nl	rienpost.nl
✗ *324	sip.gossiptel.com	sip.gossiptel.com
✓ *325	pbx.atl.roamer1.net	pbx.atl.roamer1.net
✓ *326	budgetphone.nl	BudgetPhone  [Home] [Rates]
✓ *327	ixtal.com	ixtal.com
✓ *328	fax.ollett.com	fax.ollett.com
✗ *329	iswsip.eu.effem.com	iswsip.eu.effem.com
✗ *330	voip.shizz.org	voip.shizz.org
✗ *331	telefoon.in	telefoon.in [Home] [Rates]
✓ *332	asterisk.crystalstream.net	asterisk.crystalstream.net
✓ *333	sipauth.deltathree.com	iConnectHere [Home] [Rates]
✗ *334	sip.dms.it	sip.dms.it
✓ *335	voice.overloaded.ro	voice.overloaded.ro [Home]
✗ *336	sip.iptelefoni.no	Tellix Communication AS [Home]
✓ *337	sip.malaiwah-hosting.com	MALAIWAH.COM - Services Informatiques [Home]
✓ *338	sip.voise.com.au	Nella / Voise 
✗ *339	ffd4.com	ffd4.com
✗ *340	gateway.sipserve.net.nz	sip serve new zealand [Home] [Rates]
✗ *341	sip.1und1.de	sip.1und1.de
✓ *342	sip.hablalatino.net	sip.hablalatino.net
✓ *343	siplogin.de	Interfoni/Sipnetworks [Home] [Rates]
✗ *344	sip-gmx.net	sip-gmx.net
✓ *345	sip.wirphone.cz	sip.wirphone.cz [Home] [Rates]

✗ *346	proxy.conversant.co.nz	proxy.conversant.co.nz
✓ *347	conversant.co.nz	Conversant  [Home] [Rates]
✓ *348	sip.media.it	sip.media.it
✓ *349	sip.adamvozip.es	Adam TelefonÃ± Äa IP  [Home] [Rates]
✓ *350	voipfone.co.uk	voipfone.co.uk  [Home] [Rates]
✓ *351	voip.up.edu.ph	voip.up.edu.ph
✗ *352	local.almutlaqnet.com	Al Mutlaq Company SIP Server
✓ *353	sip.varphonex.com	sip.varphonex.com
✗ *354	sip.woize.com	sip.woize.com
✗ *355	natrelay.deltathree.com	natrelay.deltathree.com
✗ *356	sip.earthlink.net	EarthLink [Home]
✓ *357	sip.bgopen.net	bgopen.net  [Home] [Rates]
✓ *358	orchid.dysphoria.eu.org	Dysphoria Veritas Est networks
✓ *359	sip.bgopen.net	bgopen.net  [Home] [Rates]
✗ *360	centrixphone.com	centrixphone.com
✗ *361	sip.ipfon.pl	sip.ipfon.pl  [Home]
✓ *362	sip.internetphoneco.com	sip.internetphoneco.com
✗ *363	t1.franske.com	Franske Asterisk Server
✓ *364	sip.wsrrcc.com	WSRCC  [Home]
✗ *365	sip.nildram.net	sip.nildram.net
✓ *366	fonosip.com	fonosip.com  [Home] [Rates]
✗ *367	sip.qxtalk.com	sip.qxtalk.com
✗ *368	sip.neophonex.hu	Neophone  [Home]
✗ *369	sip.computernik.net	sip.computernik.net
✗ *370	sip.cybereudaemonics.com	sip.cybereudaemonics.com
✗ *371	sip.jajah.com	sip.jajah.com
✓ *372	muppetmaster.com	muppetmaster.com
✗ *373	072.012.net	072.012.net 
✓ *374	h323.fratline.name.tr	h323.fratline.name.tr
✗ *375	sip.cryptotel.com	CRYPTOTEL
✗ *376	sip.ifon.pl	sip.ifon.pl
✓ *377	sip.ipclouds.co.uk	sip.ipclouds.co.uk
✗ *378	sip01.mynetfone.com.au	sip01.mynetfone.com.au
✗ *379	sip.mcm.net.mx	sip.mcm.net.mx  [Home]
✗ *380	allvoip.net	allvoip.net [Home] [Rates]
✗ *381	voip.apcs.com.au	voip.apcs.com.au
✓ *382	bbtele.se	bbtele.se
✓ *383	my.le5.com	my.le5.com
✓ *384	sip.aurafon.com	sip.aurafon.com
✗ *385	sipiax.org	sipiax.org
✗ *386	sipxchange.mit.edu	sipxchange.mit.edu
✗ *388	voice.yale.edu	voice.yale.edu
✓ *389	ren.cc.columbia.edu	ren.cc.columbia.edu
✗ *390	sip.colostate.edu	sip.colostate.edu
✗ *391	pbx.boulder.noaa.gov	pbx.boulder.noaa.gov
✓ *392	ethz.ch	ETH Zurich

✓ *393	fwd.pulver.com	FreeWorldDialup [Home]
✗ *394	sip1.iu.edu	sip1.iu.edu
✗ *395	tlenofon.pl	tlenofon.pl
✗ *396	sip.vngt.vn	sip.vngt.vn
✗ *397	voip.callpacket.com	voip.callpacket.com
✓ *398	phone.slingerlands.com	phone.slingerlands.com
✓ *399	freespeech.ie	freespeech.ie [Home] [Rates]
✗ *401	sip.ip-com.co.uk	sip.ip-com.co.uk [Home] [Rates]
✗ *402	sip.dualarrow.com	sip.dualarrow.com
✓ *403	i5k.net	i5k.net
✗ *404	voip.efacec.pt	voip.efacec.pt
✓ *405	server1.goiax.com	server1.goiax.com
✓ *406	access1.voicepulse.com	access1.voicepulse.com
✗ *407	sip.messagenet.it	sip.messagenet.it [Home]
✓ *408	sip.squillo.it	sip.squillo.it
✗ *409	cps.onvoip.net	cps.onvoip.net
✓ *410	sip.dualtalk.com	sip.dualtalk.com
✓ *412	pbx1.basnet.lv	pbx1.basnet.lv
✓ *413	sipl.supernettel.com	sipl.supernettel.com
✗ *414	sip.backbone.ch	sipcall [Home]
✗ *415	voipgateway.org	voipgateway.org
✗ *416	matrixlinks.ca	matrixlinks.ca
✓ *417	uk.sipno.org	uk.sipno.org
✓ *418	acorna.com	acorna.com
✓ *419	sipnet.ru	tario [Home] [Rates]
✗ *420	sip.vozphone.net	sip.vozphone.net
✗ *421	cpsnat.onvoip.net	cpsnat.onvoip.net
✓ *422	sipways.com	sipways.com
✗ *423	stun.voip.eutelia.it	stun.voip.eutelia.it
✗ *424	sinosip.net	sinosip.net [Home]
✗ *425	sky-phone.net	sky-phone.net [Home]
✗ *426	sip.sipmedia.com	sip.sipmedia.com
✗ *427	akl.italk.co.nz	akl.italk.co.nz [Home] [Rates]
✓ *428	vilata-nat.onvoip.net	vilata-nat.onvoip.net
✓ *429	gw3.telasip.com	gw3.telasip.com
✓ *430	blasterisk.blagblagblag.org	blasterisk.blagblagblag.org [Home]
✓ *431	voipuser.org	Voip User.org [Home]
✗ *432	siprj.goip.com.br	siprj.goip.com.br
✗ *433	voip.telepacket.com	voip.telepacket.com
✗ *434	sip.econophone.ch	sip.econophone.ch
✗ *435	proxy.goip.dk	Debitel IP [Home] [Rates]
✓ *436	thebrewers.com.au	thebrewers.com.au
✓ *437	gratissip.dk	gratissip.dk [Home]
✓ *438	iaxtel.com	iaxtel.com
✗ *439	OpenPort.MeraTelecom.com	OpenPort.MeraTelecom.com
✗ *440	fenat.onvoip.net	fenat.onvoip.net

✖ *441	sip.axvoice.com	AxVoice [Home] [Rates]
✓ *442	pbx.4ghc.info	GHC Services
✓ *443	greenkitten.co.uk	greenkitten.co.uk
✓ *445	copernicus.demon.co.uk	copernicus.demon.co.uk
✖ *446	sip.adam.com.au	www.adam.com.au [Home]
✓ *447	sip.ghe.com.au	Great Huang Enterprise VOIP [Home] [Rates]
✖ *448	sip.voipuser.org	VoIP User [Home]
✖ *449	proxy.packet8.net	packet8.net
✓ *450	xchangeata.terracall.com	Terracall [Home] [Rates]
✖ *451	sip.netvoip.ch	sip.netvoip.ch
✓ *452	vbuzzer.com:80	Vbuzzer [Home] [Rates]
✖ *453	siproxy.go2call.com	siproxy.go2call.com
✖ *454	sip.supernettel.com	sip.supernettel.com
✓ *455	hera.e-tmc.com	hera.e-tmc.com
✓ *456	sip.activehack.com	ActiveHack the ActiveVoice [Home]
✖ *457	sip.televoip.no	TeleVoiP [Home] [Rates]
✓ *458	extra.sip.abbeynet.it	extra.sip.abbeynet.it [Home]
✓ *459	cian.ws	cian.ws
✖ *460	sip.phonzo.com	sip.phonzo.com [Home]
✓ *461	sip.rukavina.net	sip.rukavina.net
✓ *462	in.callcentric.com	Callcentric [Home] [Rates]
✓ *463	sip.igranet.com	sip.igranet.com
✓ *464	www.sitatel.com	www.sitatel.com [Home]
✓ *465	sip.fullcirclenetworks.net	sip.fullcirclenetworks.net
✓ *466	sip.smartcall.ro	smartcall.ro [Home] [Rates]
✖ *467	smartcall.ro	smartcall.ro [Home] [Rates]
✖ *468	sip.telefonip.ro	sip.telefonip.ro [Home]
✖ *469	gl.ucantalk.net	gl.ucantalk.net
✓ *470	pbx.nomatterware.com	pbx.nomatterware.com
✖ *471	sip.spantalk.com	Spantalk
✖ *472	sphone.vopr.vonage.net	Vonage
✓ *473	sip.cyberring.com	sip.cyberring.com
✖ *474	ismartfone.com	ismartfone.com
✓ *475	easyconnectivity.sip.voip-system.net	easyconnectivity.sip.voip-system.net
✓ *476	aps.norstar.com	norstar.com
✖ *477	sip.cheapnet.it	sip.cheapnet.it
✓ *478	iptel.org	Iptel [Home]
✓ *479	sip.jubii.dk	sip.jubii.dk
✖ *480	sip.mynetfone.com.au	sip.mynetfone.com.au
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✖ *482	sip.voxhub.net	sip.voxhub.net
✓ *483	eip.eeip.us	eip.eeip.us
✖ *484	iinetphone.iinet.net.au	iinetphone.iinet.net.au
✖ *485	sip.globaltalks.org	sip.globaltalks.org
✖ *486	sip.sensocom.net	sip.sensocom.net
✖ *487	telcentrex.voiptalk.org	telcentrex.voiptalk.org

✓ *488	voip.globalvillage.com	GlobalVillage
✓ *489	sip.myphone.hu	MyPhone - The Broadband Phone Provider [Home]
✗ *490	crossnet.ca	crossnet.ca 
✗ *491	phoneja.com	phoneja.com
✗ *492	gw03.mytel.net.au	gw03.mytel.net.au
✓ *493	manley.lookc.nu	manley.lookc.nu
✓ *494	ar.llamadaip.org	ar.llamadaip.org
✓ *495	usa1.llamadaip.org	usa1.llamadaip.org
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✗ *499	voip-co1.teliax.com	voip-co1.teliax.com
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✗ *502	sip.nahuatel.com	sip.nahuatel.com
✓ *503	octothorp.org	octothorp.org
✓ *504	sip.salmark.net	sip.salmark.net
✗ *505	sip.atekon.de	ATEkoN e.V.  [Home]
✗ *506	mhcg.org.uk	mhcg.org.uk
✗ *507	northwest.switch.vtnoc.net	northwest.switch.vtnoc.net
✗ *508	asterisk1.zintertel.com	asterisk1.zintertel.com
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✓ *510	sip.iparea.com	sip.iparea.com
✓ *511	sipagate.com	sipagate.com [Home]
✓ *512	unfix.org	Unfix [Home]
✓ *513	sip.1899.com	sip.1899.com
✗ *514	voip.siect2.pl	voip.siect2.pl
✓ *515	sip.vbuzzer.com	sip.vbuzzer.com
✓ *516	rethnat.onvoip.net	rethnat.onvoip.net
✓ *517	wyss.id.au	wyss.id.au
✗ *518	sip1.sipdiscount.com	SIPDiscount [Home] [Rates]
✗ *519	sip.adamsatoms.com	sip.adamsatoms.com
✓ *520	torre1.jorsm.com	torre1.jorsm.com
✓ *521	sip.yess.net.ru	sip.yess.net.ru
✓ *522	sip.easydomain.com	sip.easydomain.com
✓ *523	sip.webamici.net	sip.webamici.net
✓ *524	portuguese.truevoip.com	portuguese.truevoip.com
✓ *525	sip.voxtrotter.com	sip.voxtrotter.com
✓ *526	sip.vira.it	sip.vira.it 
✓ *527	voip.bobcat.ca	voip.bobcat.ca
✓ *528	asterisk.colehower.net	asterisk.colehower.net
✓ *529	sip.mynien.net	Myrien [Home]
✗ *530	ispfone.com.br	ispfone.com.br [Home] [Rates]
✗ *531	usa3.llamadaip.org	usa3.llamadaip.org
✓ *532	sip.telio.dk	sip.telio.dk
✓ *533	sip.i-call.gr	sip.i-call.gr
✗ *534	sip1.voipbuster.com	VoipBuster  [Home] [Rates]

✓ *535	sip2.invictasoft.pt	sip2.invictasoft.pt
✓ *536	voip.ictcentre.net	voip.ictcentre.net
✓ *537	sip.redprince.net	sip.redprince.net
✓ *538	voip.lichti-edv.de	Lichti EDV-Service [Home]
✗ *539	voiper.ipkall.com	voiper.ipkall.com
✓ *540	lets-ring.net	lets-ring.net  [Home] [Rates]
✗ *541	voip.netprojects.org.uk	voip.netprojects.org.uk 
✓ *542	francevoip.com	francevoip.com
✗ *543	sip3.phonesystems.net	sip3.phonesystems.net
✗ *544	sip.song.fi	TDC Song / Maxinetti.fi [Home]
✗ *545	sip.netphone.cz	sip.netphone.cz
✗ *546	pbx.codefidence.com	pbx.codefidence.com
✓ *547	sip.mydavo.com	sip.mydavo.com [Home]
✗ *548	sip.clicconnect.com	sip.clicconnect.com [Home]
✓ *549	voip.wankota.org	voip.wankota.org
✗ *550	sip.ready2dial.com	sip.ready2dial.com
✗ *551	sip.internetcalls.com	InternetCalls [Home] [Rates]
✗ *552	sip.isp.net.au	sip.isp.net.au
✓ *553	voiper.info	voiper.info
✗ *554	sip.xs4all.nl	sip.xs4all.nl  [Home] [Rates]
✗ *555	proxy.sip200.livedoor.com	EdgTel
✗ *556	sip.voicelink.biz	VoiceLink Communications  [Home] [Rates]
✗ *557	sip.annatel.net	sip.annatel.net
✓ *558	sip.voicevideo.net	sip.voicevideo.net
✓ *559	did.voip.les.net	did.voip.les.net 
✓ *560	linuxman.it	linuxman.it
✗ *561	sip1b.profitboost.com	sip1b.profitboost.com
✓ *562	sip.directhost.com.au	sip.directhost.com.au
✓ *563	sip.directcall.com.au	sip.directcall.com.au
✓ *564	sip.televoipbrasil.net	...::Televoipbrasil.com...  [Home] [Rates]
✓ *565	acnet.co.kr	acnet.co.kr
✗ *566	babble.net	babble.net
✓ *567	sip.barnet.com.au	sip.barnet.com.au
✗ *568	sip.voipstunt.com	VoipStunt  [Home] [Rates]
✓ *569	sarevoz.com	sarevoz.com
✓ *570	sip.trinn.com.br	sip.trinn.com.br
✓ *571	voip.chilitech.net	voip.chilitech.net
✓ *572	presence.ru	presence.ru
✓ *573	sip.itcons.net	sip.itcons.net
✓ *574	one4000.com	one4000.com
✗ *575	sip01.gotalk.com	sip01.gotalk.com
✓ *576	sip.terraalink.de	sip.terraalink.de
✓ *577	anyuser.hu	anyuser.hu
✗ *578	sipx.kingmacro.net	sipx.kingmacro.net
✗ *579	cps1.onvoip.net	cps1.onvoip.net
✗ *580	proxy.digisip.net	proxy.digisip.net

✓ *581	sipsnip.com	sipsnip.com
✗ *582	sip.efonica.com	sip.efonica.com
✗ *583	sipau2.worlddialpoint.net	sipau2.worlddialpoint.net
✓ *584	rcthnat1.onvoip.net	rcthnat1.onvoip.net
✓ *585	kepler.net	kepler.net [Home]
✗ *586	sip.voipcheap.co.uk	VoIPCheap (UK)  [Home] [Rates]
✗ *587	bluesip.net	bluesip.net
✓ *588	sip.inphonex.com	sip.inphonex.com  [Home] [Rates]
✓ *589	exactelis.net	exactelis.net [Home]
✓ *590	siphon.nl	Siphon.nl  [Home] [Rates]
✓ *591	sip.halonet.pl	sip.halonet.pl
✓ *592	imediaweb.minimizeit.net	imediaweb.minimizeit.net
✓ *593	czela.net	czela.net
✗ *594	sip.ipex.cz	sip.ipex.cz
✓ *595	sip.denotos.com	sip.denotos.com
✓ *596	sip03.axxes.com	sip03.axxes.com
✓ *598	sysip.de	sysip.de 
✗ *601	van.netfone.ca	van.netfone.ca
✗ *602	e164.org	e164.org
✓ *603	sip.hol.gr	sip.hol.gr
✓ *604	sip.abctel.co.uk	sip.abctel.co.uk
✗ *605	s21.hkbntel.net	s21.hkbntel.net
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✓ *608	sip.winradius.net	sip.winradius.net
✗ *609	sip.uni.it	sip.uni.it
✗ *610	voip.htm-hl.ac.at	HTL Hollabrunn  [Home]
✗ *611	fonad.com	fonad.com
✗ *612	office.sibilo.co.uk	office.sibilo.co.uk
✗ *613	siproxy.netiq.biz	Netiq.biz, LLC
✓ *614	todobases.llamadaip.org	todobases.llamadaip.org
✓ *615	opal.com	opal.com
✗ *616	sip.tele2.se	sip.tele2.se
✓ *617	sip.myvoip.be	sip.myvoip.be
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✓ *619	rivarola.info	rivarola.info
✗ *620	fastcallgk.com	fastcallgk.com
✗ *621	sip.bluetalk.org	sip.bluetalk.org
✗ *622	sip.myphonecompany.com	sip.myphonecompany.com
✓ *623	sip.evolutiontel.net	sip.evolutiontel.net
✓ *624	kuliev.org	PRIVATE  [Home] [Rates]
✗ *625	hlas.802.cz	802.cz  [Home]
✗ *626	sip.syndicat.com	sip.syndicat.com
✓ *627	interligue.com.br	interligue.com.br
✗ *628	sip.myline.hu	sip.myline.hu
✗ *629	hlas2.802.cz	802.cz  [Home]

✓ *630	asterisk.nl.x11.net	asterisk.nl.x11.net
✓ *631	voip.1tele.net	voip.1tele.net
✓ *632	fairprocure.com	fairprocure.com
✓ *633	sip.justip.no	sip.justip.no
✗ *634	voip.servihosting.com	voip.servihosting.com [Home]
✗ *635	sip.viptel.dk	sip.viptel.dk
✓ *636	telephony.net	telephony.net  [Home]
✓ *637	sip.gradwell.net	sip.gradwell.net
✓ *638	iax.gabcast.com	iax.gabcast.com
✓ *639	sip.fayn.cz	Fayn.cz  [Home] [Rates]
✓ *640	skumler.net	skumler.net
✓ *641	www.ipsofactum.com	www.ipsofactum.com [Home]
✗ *642	sip.dedicatedsip.com	Capped Telecom Pty Ltd  [Home]
✓ *643	venezuela.hopto.org	venezuela.hopto.org
✓ *644	trysip.ingate.com	trysip.ingate.com
✓ *645	mouselike.org	mouselike.org
✗ *646	mutual.bewireless.net	mutual.bewireless.net
✓ *647	adafon.net	adafon.net  [Home]
✓ *648	sip.yoofone.co.uk	sip.yoofone.co.uk
✓ *649	vishq.com	vishq.com
✓ *650	gksyd2.telephoneglobal.com.au	gksyd2.telephoneglobal.com.au
✓ *651	tel.xtcn.com	tel.xtcn.com
✓ *652	sip.gabcast.com	Gabcast.com  [Home] [Rates]
✓ *653	switch.richmedium.com	switch.richmedium.com
✓ *654	sip.voipster.com	sip.voipster.com
✓ *655	sip.idv.net	sip.idv.net
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✗ *658	antiris.be	antiris.be 
✓ *659	asterisk.drewdavies.com	asterisk.drewdavies.com
✗ *660	sip.freecall.in.th	sip.freecall.in.th [Home]
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✗ *664	sip.broadtalk.ie	sip.broadtalk.ie
✓ *665	freedigits.net	FreeDigits  [Home]
✓ *667	schmeisser.com	schmeisser.com inc  [Home]
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✓ *670	diehlnet.com	diehlnet.com
✗ *671	sip.voiptelindia.com	sip.voiptelindia.com
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✗ *673	ekiga.net	ekiga.net  [Home]
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✓ *675	real.phear.com	real.phear.com
✗ *676	asterisk.cubio.net	asterisk.cubio.net
✗ *677	revival.xvoip.net	StealthTele

✓ *678	proxy.netphonedirectory.org:5065	Net Phone Directory
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✓ *687	sip.htt-consult.com	sip.htt-consult.com
✗ *688	emailbx.com	emailbx.com
✗ *689	psip.vontel.prima.com.ar	psip.vontel.prima.com.ar
✓ *690	sip2.technomonk.com	sip2.technomonk.com
✓ *691	voip.starnet.md	voip.starnet.md
✓ *692	invalid.name	invalid.name
✓ *693	sip.montoyas.net	sip.montoyas.net
✓ *694	sip.kcip.com	KCIP  [Home]
✓ *695	sip.engltd.net	TrueIP  [Home]
✗ *696	sip.yk4f.com	sip.yk4f.com
✗ *697	effem.com	effem.com 
✓ *698	sip.oztralia.com	OZtell Australia  [Home] [Rates]
✓ *699	sip.yackie.com	sip.yackie.com
✓ *700	tf.voipmich.com	IaxTel
✗ *701	seeleute.info	seeleute.info
✓ *703	voip-co2.teliax.com	voip-co2.teliax.com
✓ *704	sip01.cliquevp.com	sip01.cliquevp.com
✓ *705	pleasetryto.bounceme.net	My house 
✓ *706	proxy.sip.or.kr	proxy.sip.or.kr
✗ *707	sip.telphin.com	sip.telphin.com
✓ *708	ser.telefin.dk	ser.telefin.dk
✗ *709	sip.voxby.com	sip.voxby.com
✗ *710	sip.gsmcall.com	sip.gsmcall.com
✗ *711	proxy.worldcall.dk	proxy.worldcall.dk
✗ *712	sipwerk.com	sipwerk.com 
✗ *713	a1.net	mobilkom austria  [Home] [Rates]
✓ *714	voice.redspot.dk	voice.redspot.dk
✓ *715	sip.verner.net	sip.verner.net
✓ *716	ffm.lets-ring.net	ffm.lets-ring.net  [Home] [Rates]
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✓ *719	pbx.virsip.net	ViR  [Home]
✓ *720	pbx.grepnet.cz	pbx.grepnet.cz
✓ *721	sip1.manhattan.vtnoc.net	sip1.manhattan.vtnoc.net
✓ *722	ustredna.ha-vel.cz	ha-loo  [Home] [Rates]
✓ *723	sip.antisip.com	sip.antisip.com
✓ *724	sip.mujtelefon.cz	MujTelefon  [Home] [Rates]

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✓ *727	sip.wh-netz.de	sip.wh-netz.de
✓ *728	sip.exeye.co.uk	sip.exeye.co.uk
✓ *729	pbx-network.de	pbx-network.de [Home] [Rates]
✓ *730	akillerbee.net	akillerbee.net
✓ *731	troy.dizzytel.com	troy.dizzytel.com [Home]
✖ *732	mydavo.myvnc.com	mydavo.myvnc.com
✓ *733	viasip.net	viasip.net
✓ *734	sip.vectiv.de	vectiv GmbH
✓ *735	sip.ajtel.net	AJ-TEL Communications Network [Home] [Rates]
✓ *746	sip.phonegnome.com	PhoneGnome [Home]
✓ *747	proxy01.sipphone.com	SIPphone / Gizmo Project [Home] [Rates]
✓ *768	sip.plus.net	sip.plus.net [Home] [Rates]
✖ *777	sipgate.de	sipgate.de [Home] [Rates]
✓ *788	deul.purtel.com	purtel.com [Home] [Rates]
✓ *799	sip.udp.tario.ru	sip.udp.tario.ru
✖ *819	sip1.hullo.com	sip1.hullo.com [Home]
✓ *827	sip.voipsharing.com.br	Voipsharing [Home]
✓ *832	gw4.austechpartnerships.com	ATP [Home] [Rates]
✓ *850	proxy.ideasip.com	IdeaSIP [Home] [Rates]
✓ *954	sip.gruups.com	sip.gruups.com
✖ *999	sipbroker.com	Your current VoIP provider [Home]
NEW! ✓ *1800	Toll Free Service (N. America)	Toll Free Service (N. America)
NEW! ✓ *1866	Toll Free Service (N. America)	Toll Free Service (N. America)
NEW! ✓ *1877	Toll Free Service (N. America)	Toll Free Service (N. America)
NEW! ✓ *1888	Toll Free Service (N. America)	Toll Free Service (N. America)
✖ *7360	sip.allrelay.com	sip.allrelay.com
✓ *7361	robin.diversehost.net	robin.diversehost.net
✖ *7362	sip00.mynetphone.com.au	sip00.mynetphone.com.au
✖ *7363	sip00.mynetfone.com.au	sip00.mynetfone.com.au
✖ *7364	sip.gmfcomp.com	sip.gmfcomp.com
✖ *7365	tomatovine.com	tomatovine.com
✓ *7366	fcn.myvnc.com	fcn.myvnc.com
✖ *7367	aphone2.tpg.com.au	aphone2.tpg.com.au
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✓ *7371	freecall.in.th	freecall.in.th [Home]
✖ *7372	sip.volny.cz	sip.volny.cz
✖ *7373	sipdr.quantumvoice-sip.com	sipdr.quantumvoice-sip.com
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✓ *7376	illawongmoneyfarm.com	illawongmoneyfarm.com
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✓ *7379	proxy-ppl.bti-sip.net	proxy-ppl.bti-sip.net
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✓ *7384	dquam.pck.nerim.net	dquam.pck.nerim.net
✓ *7385	sip.exsorsa.it	sip.exsorsa.it
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✓ *7391	marnock.com	marnock.com
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✗ *7395	sip.phonesystems.net	sip.phonesystems.net
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✗ *7397	sip.ineen.com	sip.ineen.com
✗ *7398	sip.welho.com	sip.welho.com
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✗ *7400	voip.itnow.net.au	I.T. Now
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✓ *7402	terrasip.net	terrasip.net
✗ *7403	infinideas.com	infinideas.com
✗ *7404	sip.auserver.com	sip.auserver.com
✗ *7405	commmax.co.il	commmax.co.il
✓ *7406	ene.asda.gr	ene.asda.gr
✗ *7407	sip.asda.gr	sip.asda.gr [Home]
✓ *7408	sbc.btcBroadband.com	sbc.btcBroadband.com
✓ *7409	sip.smartcall.cz	Smartcall VoIP [Home] [Rates]
✓ *7410	sip.tecmina.com	Techno Mina Communications [Home]
✗ *7411	sunqv1001.clarinet.com.au	sunqv1001.clarinet.com.au
✓ *7412	shark.siptel.pl	shark.siptel.pl
✗ *7413	sip.intxs.com	sip.intxs.com
✓ *7414	gw04.transtech.dk	gw04.transtech.dk
✓ *7415	gw03.transtech.dk	gw03.transtech.dk
✓ *7416	cartwrijj-4.student.rose-hulman.edu	cartwrijj-4.student.rose-hulman.edu
✗ *7417	volley.net	volley.net
✓ *7418	sip.webciniz.com	sip.webciniz.com
✓ *7419	sip.premiertele.com	sip.premiertele.com
✗ *7420	sip.dialectia.com	sip.dialectia.com
✗ *7421	flauto.myftp.org	flauto.myftp.org
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✓ *7427	pbx.voipme.si	pbx.voipme.si [Home]
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✓ *7429	asterisk2.dortmund.loca.net	asterisk2.dortmund.loca.net [Home]
✗ *7430	sip.voipdiscount.com	VoipDiscount [Home] [Rates]
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✓ *7432	koalavoip.com.au	koalavoip.com.au [Home] [Rates]
✓ *7433	sip.dotxm.com	sip.dotxm.com
✓ *7434	cory2005.co.uk	cory2005.co.uk
✓ *7435	sip.voipflux.com	sip.voipflux.com
✓ *7436	sip.gw.timhawes.com	sip.gw.timhawes.com
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✓ *7438	sip.arss.net	sip.arss.net
✗ *7439	sip.arsis.ru	sip.arsis.ru
✓ *7440	sip.flamegreen.net	sip.flamegreen.net
✗ *7441	iptela.com	iptela.com
✓ *7442	sip.studio.tellme.com	sip.studio.tellme.com
✓ *7443	amp2.wvg-tele.com	World Venture Group Telecom
✓ *7444	voip-co3.telax.com	voip-co3.telax.com
✗ *7445	sip.3c-hungary.hu	sip.3c-hungary.hu
✓ *7446	sip.fonline.hu	sip.fonline.hu [Home] [Rates]
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✓ *7449	s1.easypabx.com	easypabx
✓ *7450	sip.etnvoip.com	sip.etnvoip.com
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✓ *7453	asterisk.auserver.com	asterisk.auserver.com
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✗ *7456	moondawn.et.tudelft.nl	moondawn.et.tudelft.nl
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✗ *7480	sip.teddy.cx	sip.teddy.cx
✓ *7481	sip.teddy.jp	sip.teddy.jp
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✗ *7483	realsip.com	realsip.com
✓ *7484	voip.0064.co.nz	voip.0064.co.nz [Home] [Rates]
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✓ *7490	sip.contenidosonline.com.ar	sip.contenidosonline.com.ar

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✖ *7492	sippyvoice.com	sippyvoice.com
✓ *7493	sip.xcall.us	sip.xcall.us 
✖ *7494	telecom.eolix.com.ar	telecom.eolix.com.ar
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✖ *7498	saturn.ffm.as8665.net	saturn.ffm.as8665.net
✖ *7499	3eteam.xicp.net	3eteam.xicp.net
✖ *7500	agi.8866.org	agi.8866.org
✓ *7501	voip.funkfeuer.at	voip.funkfeuer.at
✓ *7502	uno.e3c.com.br	uno.e3c.com.br
✖ *7504	office2.future1.co.uk	office2.future1.co.uk
✓ *7505	sip.telsome.dk	sip.telsome.dk
✓ *7506	lon-pbx-3.sip.2001asp.net	lon-pbx-3.sip.2001asp.net  [Home]
✖ *7507	routing.pbx.bluegrass.net	routing.pbx.bluegrass.net  [Home]
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✖ *7509	klip.hu	klip.hu 
✖ *7510	pbx.firepair.com	pbx.firepair.com
✓ *7511	public.sip.amis.net	Amis [Home] [Rates]
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✖ *7513	sip.poivy.com	poivY [Home] [Rates]
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✖ *7523	pv.hopto.org	pv.hopto.org
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✖ *7525	squirreldip.com	squirreldip.com 
✖ *7526	www.kom-kom.com	www.kom-kom.com
✖ *7527	gbraad.nl	Gerard Braad (gbraad)  [Home]
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✖ *7529	survion.nl	Surreal Vision (netherlands)  [Home]
✖ *7530	sip.weepee.org	sip.weepee.org
✖ *7531	tuckerone.com	tuckerone.com 
✖ *7532	voip.alinea.bg	voip.alinea.bg
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✓ *7536	asterisk.anectis.com.ar	asterisk.anectis.com.ar
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✗ *7542	connectionserver.sipdiscount.com	connectionserver.sipdiscount.com
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✗ *7547	digitalclouds.net	digitalclouds.net
✗ *7548	sip.fixionmedia.net	sip.fixionmedia.net
✗ *7549	sip1.spherelinx.com	SPHERELINX
✗ *7550	sip.megafone.hu	sip.megafone.hu  [Home] [Rates]
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✓ *7552	sip.mynettone.com	sip.mynettone.com
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✓ *7554	balta.no-ip.com	balta.no-ip.com
✗ *7555	sip.myvoipaccount.net	swissipcom 
✓ *7556	lon-pbx-6.priorycomputers.net	Priory Computers 
✓ *7557	Malcolm.id.au	Malcolm Media  [Home]
✓ *7558	sip.libretel.com	sip.libretel.com
✗ *7559	sip.voipcheap.com	VoipCheap  [Home] [Rates]
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✓ *7561	voip.pestana.com.br	voip.pestana.com.br
✗ *7562	br.mcmweb.com.br	br.mcmweb.com.br
✗ *7563	reg.tivi.lv	reg.tivi.lv  [Home] [Rates]
✓ *7564	voip.informatika.or.id	voip.informatika.or.id  [Home]
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✓ *7566	devos.tumihost.net	devos.tumihost.net
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✓ *7573	mel.byo.engin.com.au	mel.byo.engin.com.au 
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✓ *7575	cheuropa.llamadaip.org	cheuropa.llamadaip.org
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✓ *7579	talk.orbtalk.co.uk	talk.orbtalk.co.uk
✓ *7580	sip.air-touch.com	sip.air-touch.com
✗ *7581	sip.callunion.com	sip.callunion.com
✓ *7583	www.infosecbiz.com	www.infosecbiz.com
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✓ *7585	pbx.democracyinaction.org	pbx.democracyinaction.org
✓ *7586	3eteam.vicp.net	3eteam.vicp.net
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✓ *7588	sipix.goandcall.com	sipix.goandcall.com
✓ *7589	tel.eventure.net.au	tel.eventure.net.au
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✓ *7592	sip.raggedstaff.net	sip.raggedstaff.net
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✓ *7610	jupiter.org	jupiter.org
✓ *7611	voip.sortilege.net	voip.sortilege.net [Home]
✗ *7612	star.telecom.ksu.edu	Kansas State University [Home]
✓ *7613	www.creatixeia.com	CreaNET [Home]
✓ *7614	sip.iovoip.it	sip.iovoip.it [Home]
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✓ *7616	sip.forthai.com	ForThai.com [Home]
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✓ *7618	sip.alcotek.it	sip.alcotek.it
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✓ *7620	redhairs.force9.co.uk	redhairs.force9.co.uk
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✗ *7626	voil.clicksoftware.com	voil.clicksoftware.com
✗ *7627	pbx.vnv.co.il	pbx.vnv.co.il
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✗ *7629	sipgate.ru	sipgate.ru
✓ *7630	etherealtalk.com	etherealtalk.com
✗ *7631	proximo.iplannetworks.net	proximo.iplannetworks.net

● *7632	proxy4.cem-solutions.net	proxy4.cem-solutions.net
✓ *7633	register.parlino.com	register.parlino.com
✓ *7634	sip.voip-engineering.net	VoIP Engineering
✗ *7635	icall.com	icall.com
✗ *7636	proxy.uniquefone.com	proxy.uniquefone.com
✗ *7637	pstn.mor-tel.com	pstn.mor-tel.com
✓ *7638	sip.voxeo.net	sip.voxeo.net
✓ *7639	nsw.koalavoip.com.au	nsw.koalavoip.com.au
● *7640	sip.cosmocow.com	sip.cosmocow.com
✓ *7641	natrelay.efonica.com	natrelay.efonica.com
✗ *7642	pbx.whitehat.com	pbx.whitehat.com
✓ *7643	sip.quadnetworks.com.ar	QUADNETWORKS [Home] [Rates]
✓ *7644	sip.chipoly.com	MyCellNet [Home] [Rates]
● *7645	sip.10levels.com	sip.10levels.com
✓ *7646	portalphone.net	portalphone.net
✗ *7647	sip.callmenowfree.com	sip.callmenowfree.com [Home] [Rates]
✗ *7648	kitt.dip.jp	kitt.dip.jp
✗ *7649	imsip.myvnc.com	imsip.myvnc.com
✗ *7650	agilephone.com	agilephone.com
✗ *7651	au.voip.ecomtel.com	EcomTel [Home] [Rates]
✓ *7652	proxy.softphone.pl	proxy.softphone.pl
✗ *7653	voip.vira.it	voip.vira.it [Home]
✓ *7654	sip-jpn.voip-engineering.net	VoIP Engineering Japan
✓ *7655	voip.apnic.net	voip.apnic.net
✓ *7656	home.janitha.com	home.janitha.com
✓ *7657	vpbx.elmit.com	vpbx.elmit.com [Home]
● *7658	vpbx.elmit.net	vpbx.elmit.net
● *7659	voip.suavemente.net	voip.suavemente.net
✗ *7660	vic.koalavoip.com.au	vic.koalavoip.com.au
✗ *7661	pbxes.org	pbxes.org [Home]
✓ *7662	ens1.effringo.de	ens1.effringo.de
● *7663	mailcingusoft.com	mailcingusoft.com
✗ *7664	voip.bochterservices.com	voip.bochterservices.com
✓ *7665	sip.worldtelecommunications.net	sip.worldtelecommunications.net
✓ *7666	testac.sytes.net	testac.sytes.net
✗ *7667	sip.wa.iinet.net.au	sip.wa.iinet.net.au
✓ *7668	star.od.ua	star.od.ua [Home]
● *7669	voice.voip-project.co.uk	voice.voip-project.co.uk
✓ *7670	callsmart.jp	CallSmart World Connect [Home]
✗ *7671	sip001.g-lex.net	sip001.g-lex.net
● *7672	aphone.com	aphone.com
✓ *7673	2phone.myvnc.com	2phone.myvnc.com
✓ *7674	roger.mcdev.com.au	roger.mcdev.com.au
✗ *7675	sip.goandcall.com	sip.goandcall.com
✓ *7676	siptel.pt	siptel.pt [Home]
✓ *7677	mercury.vtnoc.net	mercury.vtnoc.net

✓ *7678	voip.shwa.be	voip.shwa.be
✓ *7679	siptel.gr	siptel.gr
✓ *7690	hls3.com	hls3.com
✓ *7691	pbx.it-ss.be	pbx.it-ss.be
✓ *7692	prada.callsmart.jp	prada.callsmart.jp
✓ *7693	sip.glenet.id.au	Glenet SIP
✗ *7694	mia.crdusa.net	mia.crdusa.net
✓ *7695	sip.pregi.net	sip.pregi.net [Home]
✗ *7696	evp.tm.net.my	evp.tm.net.my
✗ *7697	sip.esb.ucp.pt	sip.esb.ucp.pt
✗ *7698	sa.koalavoip.com.au	sa.koalavoip.com.au
✓ *7699	pbx.packetflood.net	pbx.packetflood.net
✗ *7700	sip.nsw.iinet.net.au	sip.nsw.iinet.net.au
✗ *7701	voz.smartbrasil.com	voz.smartbrasil.com
✓ *7702	math.acetix.ca	math.acetix.ca
✗ *7703	eastern.acanac.com	eastern.acanac.com
✗ *7704	sip.lowcall.biz	sip.lowcall.biz
✓ *7705	callm.sytes.net	callm.sytes.net
✗ *7706	media-voila.sytes.net	media-voila.sytes.net
✓ *7707	voice.blackfin.co.uk	voice.blackfin.co.uk
✓ *7708	du36.dns77.com	du36.dns77.com [Home]
✓ *7709	voip.servingar.com.ar	ServINGAr [Home]
✓ *7710	sip.motodirect.net	sip.motodirect.net
✗ *7711	sip.call.arcor.de	sip.call.arcor.de
✗ *7712	sip2.globalxten.com	sip2.globalxten.com
✓ *7713	iax.exgn.net	iax.exgn.net
✓ *7714	chc.italk.co.nz	chc.italk.co.nz
✓ *7715	controlaltdelete.co.nz	ControlAltDelete
✓ *7716	venus.vtnoc.net	venus.vtnoc.net
✓ *7717	sip.freesip.ch	sip.freesip.ch
✗ *7718	wlg.italk.co.nz	wlg.italk.co.nz
✗ *7719	tpod-connect.com	tpod-connect.com
✓ *7720	sip.swiss-sip.ch	sip.swiss-sip.ch
✓ *7721	bbtel.us	bbtel.us
✓ *7722	imcgglobal.com	imcgglobal.com
✗ *7723	sip.voiceover1p.de	sip.voiceover1p.de
✗ *7724	hlas4.802.cz	802.cz [Home]
✓ *7725	sip2.syd.net2max.com	Oztell [Home]
✗ *7726	sip.talkxic.net	sip.talkxic.net
✓ *7727	sip.tellfree.com.br	sip.tellfree.com.br
✓ *7728	aphone.tpg.com.au	aphone.tpg.com.au
✗ *7729	s2.easypabx.com	s2.easypabx.com
✓ *7730	sip.telfree.com.br	sip.telfree.com.br
✓ *7731	sip.jackykeung.com	sip.jackykeung.com
✗ *7732	sip.arphone.com	sip.arphone.com
✗ *7733	sip.ipmaestro.com	sip.ipmaestro.com

✖ *7734	sip.voiparound.com	sip.voiparound.com  [Home]
✓ *7735	voip.comune.prato.it	voip.comune.prato.it
✓ *7736	voipgateway.us	voipgateway.us
✓ *7737	sip.gepard.net	GepardTel [Home]
✓ *7738	mypbx.us	mypbx.us
✓ *7739	sip.vitility.net	sip.vitility.net
✖ *7740	smart076.ie	smart076.ie
✓ *7741	sip.trixsolutions.com	sip.trixsolutions.com
✓ *7742	ibc.ne.jp	ibc.ne.jp 
✓ *7743	sip1.ibc.ne.jp	sip1.ibc.ne.jp
✓ *7744	evoice.hol.gr	Hellas on Line  [Home]
✓ *7745	peches.myvnc.com	peches.myvnc.com
✓ *7746	sip.hochstaetter.org	sip.hochstaetter.org
✓ *7747	jkt1.cengkir.com	jkt1.cengkir.com
✓ *7748	silentbob-2.geekgalaxy.com	StarvingGeeks.net  [Home]
✖ *7749	sip.syd.net2max.com	sip.syd.net2max.com
✓ *7750	sip.aql.com	sip.aql.com
✓ *7751	au.gtsip.com	GTS Australia  [Home] [Rates]
✓ *7752	hlas3.802.cz	802.cz  [Home]
✖ *7753	LES.NET	LES.NET
● *7754	3gnt.net	3GNTW  [Home] [Rates]
✓ *7755	sip.3gnt.net	3GNTW  [Home] [Rates]
✓ *7756	ivoxo.net	ivoxo.net  [Home] [Rates]
✖ *7757	wa.koalavoip.com.au	wa.koalavoip.com.au
✓ *7758	srv-sip-1.groupe-esc-rouen.fr	srv-sip-1.groupe-esc-rouen.fr
✖ *7759	sip.webcalldirect.com	WebCallDirect [Home] [Rates]
✖ *7760	sipau.worlddialpoint.net	sipau.worlddialpoint.net
✓ *7761	voipstation.de	voipstation.de  [Home] [Rates]
✓ *7762	cn99.2288.org	cn99.2288.org
✖ *7763	sip.voipsureste.com	sip.voipsureste.com
✓ *7764	sip.tamix.com	sip.tamix.com
✓ *7765	public.sip.magrathia.net	public.sip.magrathia.net
✓ *7766	www.thuanlinh.biz.vn	www.thuanlinh.biz.vn
✓ *7767	voip.nickdawson.net	voip.nickdawson.net
● *7768	slumberland.be	slumberland.be
✓ *7769	ch03.sip-fon.eu	Sip-Fon VoIP Services Meyer  [Home] [Rates]
✖ *7780	sip.jessonline.net	sip.jessonline.net
✓ *7781	sip.ringydingy.net	sip.ringydingy.net
● *7782	sip.danielaballester.com	sip.danielaballester.com
● *7783	sip.cdigital.com.ar	CDigital VoIP  [Home] [Rates]
✓ *7784	sainetsolutions.com	sainetsolutions.com
✓ *7785	sip.sanvido.org	sip.sanvido.org
✓ *7786	voice.scandesigns.com	voice.scandesigns.com
● *7787	webvoice.g9sa.pt	webvoice.g9sa.pt
✓ *7788	asterisk.bppiac.hu	asterisk.bppiac.hu
✓ *7789	hello.zarco.org	hello.zarco.org

✓ *7790	sip.ytg.com.tr	sip.ytg.com.tr
✓ *7791	itelefon.no	itelefon.no
✓ *7792	sip.connflex.net	Connflex S.R.L. [Home]
✓ *7793	fvn-net.org	FVN Alliance [Home] [Rates]
✓ *7794	sip.sinapsys.net	sip.sinapsys.net
✓ *7795	bellshare.com	bellshare.com
✗ *7796	sip.carpo.de	sip.carpo.de
✓ *7797	sip.velocitysc.com	sip.velocitysc.com
✓ *7798	freevoip.gedameurope.com	freevoip.gedameurope.com
✓ *7799	sip.ibcnet.jp	sip.ibcnet.jp
✓ *7800	sip.convoitec.com	sip.convoitec.com
✓ *7801	sip.melonite.nu	Melonite VoIP [MGS] [Home] [Rates]
✓ *7802	sip.webacall.com	Webacall.com [Home] [Rates]
✓ *7803	pbx.nlomi.com	pbx.nlomi.com
✓ *7804	sip1.dsidata.sk	sip1.dsidata.sk
✗ *7805	serv.ebrfone.com.br	serv.ebrfone.com.br
✗ *7806	itelmx.com	itelmx.com
✓ *7807	voip.interbs.com.ar	interbs.com.ar
✓ *7808	www.jwdvoip.com.ar	www.jwdvoip.com.ar
✓ *7809	vps.k-link.net	vps.k-link.net
✓ *7810	sip.fastlinkconnection.com.au	sip.fastlinkconnection.com.au
✓ *7811	muessig.voip-taunus.de	muessig.voip-taunus.de
✗ *7812	sip01.interfone.org	sip01.interfone.org
✓ *7813	sip.favas.be	sip.favas.be
✓ *7814	voipstation.jp	voipstation.jp
✓ *7815	sip.anse.com.sg	sip.anse.com.sg
✗ *7816	voipservice.jp	voipservice.jp
✓ *7817	binkley.secnet.net.au	South East Communication Network
✗ *7818	sip.norlink.com.br	sip.norlink.com.br
✓ *7819	proxy.fonebilling.com	proxy.fonebilling.com
✓ *7820	voip.ikatu.net	voip.ikatu.net
✓ *7821	sip.vocatel.com	sip.vocatel.com
✗ *7822	sip1.pymes.net	PymesNet [Home]
✓ *7823	voip.voleng.com	voip.voleng.com
✗ *7824	pbx.totalaccess.net	pbx.totalaccess.net
✗ *7825	sip.callip.org	sip.callip.org
✗ *7826	sip.btsip.bt.net	sip.btsip.bt.net
✗ *7827	alpha.xtr.cc	alpha.xtr.cc
✗ *7828	sip.goimienphi.com	sip.goimienphi.com
✓ *7829	sip.hyz.com.br	sip.hyz.com.br
✓ *7830	pbx.talefod.dk	pbx.talefod.dk
✗ *7831	sip.mweb.net	sip.mweb.net
✓ *7832	voip.ciberstation.net	voip.ciberstation.net
✗ *7833	sd.voip.freester.com	sd.voip.freester.com
✗ *7834	voip.virttel.com	voip.virttel.com
✗ *7835	sip.optiphonex.com	sip.optiphonex.com

✖ *7836	sip.voice.netspace.net.au	sip.voice.netspace.net.au
✓ *7837	voip.piranhaa.net	voip.piranhaa.net
✓ *7838	slamtel.com	slamtel.com
✖ *7839	sip00.mynetfone.com	sip00.mynetfone.com 
✓ *7840	sipcall.com	sipcall.com
✓ *7841	purdon.ca	purdon.ca
✓ *7842	digitalml.com	digitalml.com
✓ *7843	sip.foedermayr.net	sip.foedermayr.net
✖ *7844	sip.simply-connect.de	sip.simply-connect.de
✓ *7845	sip.1callu.com	1callu  [Home] [Rates]
✖ *7846	voip.billing.kiev.ua	voip.billing.kiev.ua
✓ *7847	sip.whitephone.com	sip.whitephone.com
✓ *7848	kjzx.sip.wiscape.cn	kjzx.sip.wiscape.cn
✓ *7849	sip.webphone.com	sip.webphone.com
✖ *7850	mail.itcs.net.au	mail.itcs.net.au
✓ *7851	vietfone.com.vn	vietfone.com.vn
✓ *7852	proxy.ngnfone.com	proxy.ngnfone.com
✖ *7853	did.talkgulf.com	did.talkgulf.com
✓ *7854	did.coternet.net	did.coternet.net
✓ *7855	squall38.globedns.info	squall38.globedns.info
✓ *7856	sip.hallusa.com	sip.hallusa.com 
✓ *7857	usvoip.com	usvoip.com
✖ *7858	voip.inode.at	voip.inode.at
✖ *7859	sip.micronet.info	sip.micronet.info
✓ *7860	sip.phriko.com	sip.phriko.com
➊ *7861	antibala.com	antibala.com
✓ *7862	mrsip001.mediaring.com	mrsip001.mediaring.com
✓ *7863	sip.mcoms.co.uk	MCOMS  [Home]
✓ *7864	bitlynx.com	bitlynx.com  [Home]
✖ *7865	sip02.synerip.com	SynerTel  [Home]
✓ *7866	pbx.absol.com	pbx.absol.com
✓ *7867	sip.cobby.com	sip.cobby.com 
✓ *7868	sip.aquanta.com	sip.aquanta.com
✖ *7869	voipjunction.com	voipjunction.com
✓ *7870	brio.mosel.ro	brio.mosel.ro 
✓ *7871	jm.silk.com	jm.silk.com
✓ *7872	voip2-mtl1.dringme.com	voip2-mtl1.dringme.com
➊ *7873	voip.plains.net	voip.plains.net
✖ *7874	sip.sipbr.com	sip.sipbr.com
✓ *7875	sip1.pipelinetelecom.com	sip1.pipelinetelecom.com
✓ *7876	hoangvietkhanh.com	hoangvietkhanh.com
✓ *7877	sip.lontec.com.ar	sip.lontec.com.ar
✓ *7878	wrth.strategicvoip.com	wrth.strategicvoip.com
✓ *7879	techcasting.net	techcasting.net
✖ *7890	vono.net.br	VONO  [Home] [Rates]
✓ *7891	ubiphone.ubiquisys.com	ubiphone.ubiquisys.com

✓ *7892	inoc-dba.pch.net	inoc-dba.pch.net
✗ *7893	sip.gmx.de	sip.gmx.de
✗ *7894	sip1.unotel.dk	sip1.unotel.dk
✗ *7895	sip.3c-russia.ru	sip.3c-russia.ru
✓ *7896	sip.digitro.com.br	sip.digitro.com.br
✗ *7897	sip.quazzle.net	sip.quazzle.net
✓ *7898	pbx.kr.ua	pbx.kr.ua
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✓ *7900	sip.justedge.net	sip.justedge.net
✓ *7901	sip.ttn.net	sip.ttn.net
✗ *7902	sip.mysecretary.net	sip.mysecretary.net
✓ *7903	wmp11.com	wmp11.com
✓ *7904	gtwiax.domingofamiliar.com	gtwiax.domingofamiliar.com
✗ *7905	ip.tanifon.pl	ip.tanifon.pl
✗ *7906	sol-mh-srv3.unwirednet.net	VOIPco.unwirednet.net
✓ *7907	imcg.mypsyx.net	imcg.mypsyx.net
✗ *7908	sip02.livecalling.com	sip02.livecalling.com
✓ *7909	matachel.com	matachel.com
✗ *7910	frozenmemoirs.com	frozenmemoirs.com [Home]
✓ *7911	sip.webdesk.com.au	sip.webdesk.com.au
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✗ *7914	onnet.quall.com.br	onnet.quall.com.br
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✗ *7916	psip1.mclink.it	psip1.mclink.it
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✓ *7918	caloyannis.com	caloyannis.com
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✓ *7920	pbx.kwworld.com	pbx.kwworld.com
✓ *7921	scantec.pt	scantec.pt
✗ *7922	voip.cadema.com.ar	voip.cadema.com.ar
✗ *7923	sip05.clubefone.com	sip05.clubefone.com
✓ *7924	cploedm.planettelecom.org	cploedm.planettelecom.org
✓ *7925	sip.brekeke.com	Brekeke Software [Home]
✓ *7926	van1.voipportal.ca	van1.voipportal.ca
✓ *7927	sip.chainleadercorp.com	sip.chainleadercorp.com
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✗ *7929	pbx1.thinkbright.net	pbx1.thinkbright.net
✗ *7930	sip.voipsharing.com.br	Voipsharing [Home]
✗ *7931	callsbuy.com	callsbuy.com
✓ *7932	test.numbering.info	test.numbering.info
✗ *7933	call.reachmefast.com	call.reachmefast.com
✗ *7934	sip.oxyonline.cz	sip.oxyonline.cz
✓ *7935	test.dialupaudio.com	test.dialupaudio.com
✓ *7936	sip.skeeter-net.net	sip.skeeter-net.net
✓ *7937	sip.teamti.com	sip.teamti.com

● *7938	proxy.samsung070.com	proxy.samsung070.com
● *7939	freesip.caiway.nl	freesip.caiway.nl
● *7940	sip.efftel.net	sip.efftel.net
● *7941	voip.esms.com	voip.esms.com
● *7942	computerguysolutionsonline.com	computerguysolutionsonline.com
● *7943	123abcd0.cjb.net	AirTelFun
● *7944	sip.3starsnet.com	3StarsNet  [Home] [Rates]
● *7945	sip.maskina.com	sip.maskina.com
● *7946	sip.sezampro.yu	SezamPro On-Line  [Home]
● *7947	sip.vita.com.ar	sip.vita.com.ar
● *7948	sip99.mamakall.com	sip99.mamakall.com
● *7949	sip.elde.net	sip.elde.net
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● *7951	jpillary.serveftp.com	jpillary.serveftp.com
● *7952	sip.checchi.net	sip.checchi.net
● *7953	linksolution.novaphone.net	linksolution.novaphone.net
● *7954	pbx.foneanyware.net.au	pbx.foneanyware.net.au
● *7955	sip.ilian.org	sip.ilian.org
● *7956	voip3-mtl1.voicemeup.com	voip3-mtl1.voicemeup.com
● *7957	sip.vol.at	sip.vol.at
● *7958	sip.voipkosovasite.com	sip.voipkosovasite.com
● *7959	sip.ipcorp.com.br	sip.ipcorp.com.br
● *7960	ndlong.de	ndlong.de
● *7961	voice.tokentok.com	voice.tokentok.com
● *7962	gk.360sip.com	gk.360sip.com
● *7963	arlab.pointclark.net	arlab.pointclark.net
● *7964	sip.tmais.com.br	sip.tmais.com.br  [Home]
● *7965	sfl.clarocom.net	sfl.clarocom.net
● *7966	puhelin.eofficemanager.net	puhelin.eofficemanager.net
● *7967	sip.bourget.cc	Bourget.cc 
● *7968	sip.convergence.com.au	sip.convergence.com.au
● *7969	sip.iglobalink.net	sip.iglobalink.net
● *7970	tel.t-online.de	tel.t-online.de
● *7971	coms.com	coms.com
● *7972	felix.warit.net	felix.warit.net
● *7973	vocehost.co.uk	vocehost.co.uk
● *7974	sip.no-ip.biz	sip.no-ip.biz
● *7975	iphone.freenet.de	iphone.freenet.de
● *7976	kpn.ag.co.th	kpn.ag.co.th
● *7977	sip.wimanx.com	Wi-Manx Limited  [Home] [Rates]
● *7978	sip.sipsrv.com	sip.sipsrv.com
● *7979	sip.redlibre.cl	sip.redlibre.cl  [Home]
● *7980	switch1.voip.winworld.com	switch1.voip.winworld.com
● *7981	sip.cybnet.ch	sip.cybnet.ch
● *7982	bgopentel.com	bgopentel.com 
● *7983	stun.gis.net	stun.gis.net

✓ *7984	sip.skynet-tel.com	sip.skynet-tel.com
✓ *7985	pbx.tawi.fi	pbx.tawi.fi
✓ *7986	nt.isncom.net	nt.isncom.net
✗ *7987	sip.telextreme.net	sip.telextreme.net
✓ *7988	sip.dns-hosting.info	sip.dns-hosting.info
✗ *7989	academy.co.uk	academy.co.uk
✓ *8010	didww.com	didww.com
✓ *8011	proxy.entacall.com	proxy.entacall.com
✗ *8012	sip.skynetcommunications.com.au	sip.skynetcommunications.com.au
✗ *8013	sipout.suomenpuhelin.com	sipout.suomenpuhelin.com
✗ *8014	ip-pabx.com	ip-pabx.com
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✗ *8017	ssl.vivocom.com	ssl.vivocom.com
✗ *8018	sip.estenet.com	sip.estenet.com [Home] [Rates]
✗ *8019	sip.lowratevoip.com	sip.lowratevoip.com
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✗ *8021	sip.virgosolutions.net	sip.virgosolutions.net
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✓ *8023	agmen.org	AGMEN (.org) [Home]
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✓ *8027	homesip.net	homesip.net
✓ *8028	voice.prayerbuddy.org	voice.prayerbuddy.org
✓ *8029	proxy.eztel.net.au	proxy.eztel.net.au
✓ *8030	asterix.aiias.edu	asterix.aiias.edu
✗ *8031	sip.rivarola.org	sip.rivarola.org
✗ *8032	sip.satelitalvoice.com	sip.satelitalvoice.com
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✗ *8034	sipeust.myipservice.com	sipeust.myipservice.com
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✗ *8038	sip.voipblue.de	sip.voipblue.de
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✓ *8040	sip.abms.com.au	sip.abms.com.au
✗ *8041	sip.byu.edu	sip.byu.edu
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✓ *8045	voip.imcgglobal.net	voip.imcgglobal.net
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✗ *8047	hally.redirectme.net	hally.redirectme.net
✗ *8048	eastern.acanac.net	eastern.acanac.net
✗ *8049	sip.voxphone.net	sip.voxphone.net
✓ *8050	gw128.terravon.com	gw128.terravon.com

✖ *8051	sip.diskavontade.com	sip.diskavontade.com
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✖ *8053	sip.ligatel.com	sip.ligatel.com
✖ *8054	sip.call-gateway.com	sip.call-gateway.com
✖ *8055	office.hipernet.hu	office.hipernet.hu
✓ *8056	sip.sipids.com	sip.sipids.com
✓ *8057	etvfs.emeraldtechnologies.us	Emerald Technologies  [Home]
✖ *8058	bassnotes.com	bassnotes.com
✖ *8059	vivodi.org	vivodi.org
✖ *8060	vivodinet.info	vivodinet.info 
✓ *8061	sip.dahvoice.com	sip.dahvoice.com
✓ *8062	pbx.chrisam.com	pbx.chrisam.com 
✖ *8063	voip.cyberboom.com	voip.cyberboom.com
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✖ *8066	gsm.kallkool.com	gsm.kallkool.com
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✓ *8068	magelus.com	magelus.com
✓ *8069	home.thetechnogeeks.net	home.thetechnogeeks.net 
✖ *8070	call.io	call.io
✖ *8071	sip.betamax.de	sip.betamax.de
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✖ *8078	sip001.mitacs.com	PlatinPlus  [Home]
✖ *8079	node1.voicenode.at	Macrogate  [Home]
✖ *8080	coulommiers.hd.free.fr	coulommiers.hd.free.fr
✖ *8081	sip.lanwork.ca	sip.lanwork.ca
✓ *8082	shake.billfehring.com	shake.billfehring.com 
✓ *8083	sip.free-voip.eu	sip.free-voip.eu
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✓ *8086	fe2.sipnetwork.ru	fe2.sipnetwork.ru
✓ *8087	pgp01.tevolution.net	pgp01.tevolution.net
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✖ *8094	eugw.ast.diamondcard.us	eugw.ast.diamondcard.us
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✓ *8096	sipix.jp	sipix.jp  [Home]

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✖ *8098	sip0.x85.com	sip0.x85.com
✓ *8099	sip1.ionoc.net	sip1.ionoc.net
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✖ *8101	sip.netprimates.com	sip.netprimates.com
✖ *8102	pbx.evoice.pl	pbx.evoice.pl
✓ *8103	telezin.net	telezin.net
✓ *8104	cosmovoice.com	cosmovoice.com [Home] [Rates]
✓ *8105	sip.volny.net.info	sip.volny.net.info
✓ *8106	sip.fonebox.com.au	sip.fonebox.com.au [Home] [Rates]
✖ *8107	sip1.whistlertel.com	sip1.whistlertel.com
✖ *8108	voip.tctwest.net	voip.tctwest.net
✓ *8109	gk.voipland.net	gk.voipland.net
✓ *8110	voip1.broadbandsolutions.com.au	voip1.broadbandsolutions.com.au
✓ *8111	sip.voipmatrix.com	sip.voipmatrix.com
✓ *8112	omediait.com	omediait.com [Home]
✖ *8113	sip.bsvoip.info	sip.bsvoip.info
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✓ *8115	voip.icons.ca	voip.icons.ca
✓ *8116	sip.sparruf.de	sip.sparruf.de
✖ *8117	eastern2.acanac.net	eastern2.acanac.net
✖ *8118	sip.globalvoip.com	sip.globalvoip.com
✓ *8119	freespeech.co.uk	freespeech.co.uk
✓ *8120	s3.easypabx.com	s3.easypabx.com
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✓ *8122	meent.org	meent.org
✓ *8123	meent.net	meent.net
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✓ *8130	borowski.dtdns.net	borowski.dtdns.net
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✓ *8133	vs.lltm.net	vs.lltm.net
✓ *8134	intersol.ro	intersol.ro [Home]
✓ *8135	sip.thebellows.us	sip.thebellows.us
✓ *8136	voip.kiwak.net	voip.kiwak.net
✖ *8137	pbx.247t.fiaxon.com	pbx.247t.fiaxon.com
✓ *8138	tadmin-sip.csumain.csu.edu.au	tadmin-sip.csumain.csu.edu.au
✓ *8139	app1.peoplefone.ch	app1.peoplefone.ch
✓ *8140	pbx1.econovox.net	pbx1.econovox.net
✓ *8141	linkup2.net	linkup2.net
✖ *8142	sip.tpad.com	sip.tpad.com

✓ *8143	k2telerom.com	k2telerom.com
✓ *8144	prayersdirect.com	prayersdirect.com
✓ *8145	c-24-2-58-35.hsd1.mn.comcast.net	c-24-2-58-35.hsd1.mn.comcast.net
✓ *8146	scylla.uwa.edu.au	scylla.uwa.edu.au
✗ *8147	commonline.dk	commonline.dk  [Home]
✗ *8148	sip.nguyenandi.com	sip.nguyenandi.com
✗ *8149	pbxes.efftel.net	pbxes.efftel.net
✗ *8150	siproxy.prodatanet.com.ph	siproxy.prodatanet.com.ph 
✗ *8151	sip.isp-korte.de	sip.isp-korte.de
✓ *8152	sip.increatum.com	sip.increatum.com 
✗ *8153	voip.unimedbelem.com.br	voip.unimedbelem.com.br  [Home] [Rates]
✓ *8154	sip3w.com	Telenet CR  [Home]
✗ *8155	myphone.ge	myphone.ge  [Home]
✓ *8156	sip.yandex.net	sip.yandex.net
✓ *8157	sip.facepa.com.br	sip.facepa.com.br  [Home] [Rates]
✗ *8158	marstouch.com	marstouch.com
✓ *8159	voip.trxtel.com	voip.trxtel.com
✗ *8160	sip.voipbusterpro.com	sip.voipbusterpro.com  [Home] [Rates]
✓ *8161	sip.startel.pt	sip.startel.pt
✓ *8162	sip.affan.us	sip.affan.us
✗ *8163	sip.alekontakt.pl	sip.alekontakt.pl
✗ *8164	proxy.atlasvoice.com	proxy.atlasvoice.com
✗ *8165	sip.carpo.net	sip.carpo.net
✓ *8166	voip.ozzie.web.id	voip.ozzie.web.id
✓ *8167	sip.totopos.de	sip.totopos.de
✓ *8168	sip.extra-net.ro	Duplex Communication  [Home] [Rates]
✗ *8169	voip-mtr12.cia.com	cia.com  [Home] [Rates]
✓ *8170	voip.bel.net	voip.bel.net 
✓ *8171	sip.megavox.com.ar	sip.megavox.com.ar  [Home]
✓ *8172	cartuchogroup.net	cartuchogroup.net
✓ *8173	trx-103-9.cb.arvig.net	trx-103-9.cb.arvig.net
✓ *8174	sip.fridu.net	sip.fridu.net
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✓ *8176	sip.pbxes.com	sip.pbxes.com
✓ *8177	sip.dahvoice.net	sip.dahvoice.net
✓ *8178	pbx.portaluniverse.com	pbx.portaluniverse.com
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✓ *8180	voip.windsorgroup.co.uk	voip.windsorgroup.co.uk
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✓ *8184	hoya.thnic.co.th	hoya.thnic.co.th
✗ *8185	voip.sigalradio.co.il	voip.sigalradio.co.il
✓ *8186	facts.com.au	facts.com.au
✗ *8187	sip.emeel.us	sip.emeel.us
✓ *8188	sip.didan.net	sip.didan.net

	*8189	lifelp.tips.com.br	lifelp.tips.com.br
NEW!	✓ *8200	sip.voipdegraca.com.br	sip.voipdegraca.com.br [Home]
NEW!	✓ *8201	sdq.dgtac.net.do	sdq.dgtac.net.do
NEW!	✗ *8202	sip.rumodigital.com	rumodigital [Home]
NEW!	✗ *8203	sip.softfoundry.net	sip.softfoundry.net
NEW!	✗ *8204	voipl.ans.com.au	voipl.ans.com.au
NEW!	✓ *8205	nic.at43.at	nic.at43.at
NEW!	✗ *8206	sip.mytcom.it	sip.mytcom.it [Home] [Rates]
NEW!	✓ *8207	gtalksplinter.net	gtalksplinter.net
NEW!	✓ *8209	sip.potatoboy.com	sip.potatoboy.com
NEW!	✓ *8210	sip.arinos.net	sip.arinos.net [Home] [Rates]
NEW!	✓ *8211	voip.idesegar.com	voip.idesegar.com [Home]
NEW!	✓ *8212	blarneyphone.com	blarneyphone.com [Home]
NEW!	✗ *8213	sip.zj.cn	sip.zj.cn
NEW!	✓ *8214	sip.jx.cn	sip.jx.cn
NEW!	✓ *8215	p4u.teleopen.net	p4u.teleopen.net
NEW!	✗ *8216	sip.voipten.com	sip.voipten.com
NEW!	✓ *8217	vip.96388.com	vip.96388.com
NEW!	✗ *8218	sip.foip.cn	sip.foip.cn
NEW!	✓ *8219	sip.citilink.info	sip.citilink.info [Home]
NEW!	✓ *8220	ufvgw.ufv.br	ufvgw.ufv.br
NEW!	✓ *8221	voip-gw.smartvendor.com	voip-gw.smartvendor.com
NEW!	✓ *8222	voip.usu.ac.id	voip.usu.ac.id
NEW!	✓ *8223	virtualphoneline.com	virtualphoneline.com
NEW!	✓ *8224	d4rr3ll.com	d4rr3ll.com
NEW!	✓ *8225	voip.nf	voip.nf
NEW!	✗ *8226	bckwi.com	bckwi.com
NEW!	✓ *8227	vgw1.link2voip.com	vgw1.link2voip.com [Home]
NEW!	✗ *8228	sip.hostedvoiptelecom.com	sip.hostedvoiptelecom.com
NEW!	✓ *8229	wx3.se	wx3.se
NEW!	✗ *8231	sip.tele2.nl	sip.tele2.nl
NEW!	✓ *8232	merlin.port-x.de	merlin.port-x.de [Home] [Rates]
NEW!	✓ *8233	sip.viphone.cz	sip.viphone.cz
NEW!	✗ *8234	sip-us1.inttel.net	sip-us1.inttel.net
NEW!	✗ *8235	keyyo.net	keyyo.net
NEW!	✗ *8236	timmy.boreios.net	timmy.boreios.net
NEW!	✗ *8237	sip.justvoip.com	sip.justvoip.com
NEW!	✓ *8238	sip.imath.be	imath.be
NEW!	✓ *8239	voip.ragle.net	voip.ragle.net
NEW!	✓ *8240	batavo.yi.org	batavo.yi.org
NEW!	✗ *8241	sip.unlimitel.ca	sip.unlimitel.ca [Home]
NEW!	✓ *8242	sip.chipz.org	sip.chipz.org
NEW!	✓ *8243	ast1.ozsite.net	ast1.ozsite.net
NEW!	✓ *8244	siptel.pixin.net	Pixin Research
NEW!	✓ *8245	gatecontrol.net	gatecontrol.net
NEW!	✗ *8246	ca01.ivoz.net	ca01.ivoz.net

NEW!	● *8247	obp.wwtsip.com	obp.wwtsip.com
NEW!	● *8248	sip.liberalvoip.it	sip.liberalvoip.it
NEW!	● *8249	vp4.cpsnet.com.ar	vp4.cpsnet.com.ar
NEW!	● *8250	sip.hotwire.no	Hotwire Networks 
NEW!	● *8251	sip01.voip.ufsc.br	sip01.voip.ufsc.br
NEW!	● *8252	sip.intertex.se	sip.intertex.se
NEW!	● *8253	sipname.ru	sipname.ru
NEW!	● *8254	dynsip.org	dynsip.org
NEW!	● *8255	callslive.com	callslive.com
NEW!	● *8256	sip.treesuite.net	TreeSuite Networks, Inc. 
NEW!	● *8257	voip.brightstaronline.info	voip.brightstaronline.info
NEW!	● *8258	sip.domtelecom.be	sip.domtelecom.be 
NEW!	● *8259	pbx.netfinity.bg	pbx.netfinity.bg  [Home] [Rates]
NEW!	● *8260	voip.belgacom.be	voip.belgacom.be
NEW!	● *8261	switch.k5.com.au	switch.k5.com.au
NEW!	● *8262	grayman.org	grayman.org
NEW!	● *8263	papa.terravox.net	papa.terravox.net
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NEW!	● *8268	sip1.vestjyllands.net	sip1.vestjyllands.net
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NEW!	● *8282	exchange.scenario.com.au	exchange.scenario.com.au 
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NEW!	● *8284	sip.apolka.eu	sip.apolka.eu
NEW!	● *8285	tan.voipoffice.org	tan.voipoffice.org
NEW!	● *8286	gw.barablu.com	gw.barablu.com
NEW!	● *8287	servertelecom.com	servertelecom.com
NEW!	● *8288	voip.inforsolutions.com.br	voip.inforsolutions.com.br  [Home]
NEW!	● *8289	kingswood-consulting.co.uk	kingswood-consulting.co.uk
NEW!	● *8290	betunel.alta.com.br	betunel.alta.com.br
NEW!	● *8291	sip.broadvox.com	sip.broadvox.com
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NEW!	● *8293	sip.leadervoip.com	sip.leadervoip.com
NEW!	● *8295	sip.ibphone.com	sip.ibphone.com
NEW!	● *8296	pcwarranties.co.uk	pcwarranties.co.uk
NEW!	● *8297	sip.davidson.co.za	sip.davidson.co.za
NEW!	● *8298	voip.aptela.com	voip.aptela.com
NEW!	● *8299	singlenode.net	singlenode.net
NEW!	● *8300	voip.nick125.com	voip.nick125.com
NEW!	● *8301	gold.inlimbo.org	gold.inlimbo.org
NEW!	● *8302	vjozsef.myip.hu	vjozsef.myip.hu 
NEW!	● *8303	epx.com.br	epx.com.br

NEW! ✓ *8304	appsrv1.sipphone.net.cn	appsrv1.sipphone.net.cn
NEW! ⚡ *8305	encino.fonz.net	encino.fonz.net
NEW! ✓ *8306	sip.opennet.ro	opennet.ro
NEW! ✓ *8307	sip411.com	sip411.com
NEW! ⚡ *8308	proxy02.ipcall4u.com	proxy02.ipcall4u.com
NEW! ✓ *8309	kalita.dk	kalita.dk
NEW! ⚡ *8310	anrat.net	anrat.net
NEW! ✓ *8311	lemming.strangled.net	lemming.strangled.net
NEW! ✓ *8312	ipgw.dr.codian.com	ipgw.dr.codian.com
NEW! ✓ *8313	crunch.telephreak.org	crunch.telephreak.org
NEW! ✓ *8314	sip.pctel.ru	sip.pctel.ru
NEW! ✓ *8315	pbxes.de	pbxes.de
NEW! ✓ *8316	phone.counterpath.com	phone.counterpath.com
NEW! ⚡ *8317	sip.syd.pacific.net.au	sip.syd.pacific.net.au
NEW! ✗ *8318	sip.pfingo.com	sip.pfingo.com
NEW! ✓ *8319	public.freenum.org	public.freenum.org
NEW! ✓ *8330	norai.net	norai.net
NEW! ✗ *8331	qwerty.cnt.ru	qwerty.cnt.ru
NEW! ✓ *8332	ftp.houseofmarley.net	ftp.houseofmarley.net
NEW! ✓ *8333	sip.corbina.ru	sip.corbina.ru
NEW! ✓ *8334	mrphones.net	mrphones.net
NEW! ✓ *8335	cl1.glphone.com	cl1.glphone.com
NEW! ✗ *8336	voicestick.servehttp.com	voicestick.servehttp.com
NEW! ⚡ *8337	voip.directell.com.br	voip.directell.com.br
NEW! ✓ *8338	sip.wmc-telecom.net	sip.wmc-telecom.net
NEW! ✓ *8339	sip.ip24.no	sip.ip24.no
NEW! ✓ *8340	sip.global1touch.com	diacom [Home] [Rates]
NEW! ⚡ *8341	pluto.smsbee.com	pluto.smsbee.com
NEW! ⚡ *8342	sip.talkscan.co.uk	sip.talkscan.co.uk
NEW! ✗ *8343	sip-idt1.voip-provisioning.com	sip-idt1.voip-provisioning.com
NEW! ✓ *8344	sip.msalkeld.com	sip.msalkeld.com
NEW! ✓ *8345	officedigits.net	officedigits.net
NEW! ✓ *8346	findandchat.net	findandchat.net
NEW! ⚡ *8347	nextalarm.com	nextalarm.com
NEW! ⚡ *8348	did.voicenetwork.ca	did.voicenetwork.ca
NEW! ✓ *8349	sip.transmisja.com.pl	sip.transmisja.com.pl
NEW! ⚡ *8351	jayabaya.jasatel.net.id	jayabaya.jasatel.net.id
NEW! ⚡ *8352	sip.pertaminux.org	sip.pertaminux.org
NEW! ⚡ *8353	sip.voipviet.com	sip.voipviet.com
NEW! ✓ *8354	sip.haltraining.net	sip.haltraining.net
NEW! ✓ *8355	sip.alobizden.com	sip.alobizden.com
NEW! ✓ *8357	sip.empperor.com	Empperor Voip Access
NEW! ✓ *8358	localphone.com	localphone.com
NEW! ✓ *8359	home.squiggle.gen.nz	home.squiggle.gen.nz
NEW! ⚡ *8360	voip.lsipm.com	voip.lsipm.com
NEW! ⚡ *8361	sip.voipnordeste.com	sip.voipnordeste.com

NEW! ✓ *8362	piworkssip.curvy.co.za	piworkssip.curvy.co.za
NEW! ✓ *8363	sip.voipetel.com	sip.voipetel.com
NEW! ⚡ *8364	realfone.net	realfone.net
NEW! ⚡ *8365	sip.pbxmobile.com	sip.pbxmobile.com
NEW! ⚡ *8366	server5.sipphone.co.th	server5.sipphone.co.th  [Home]
NEW! ✓ *8367	sip.goodfone.com	sip.goodfone.com
NEW! ✓ *8368	codenix.org	codenix.org  [Home]
NEW! ⚡ *8369	sip.cozumelvozip.com	sip.cozumelvozip.com
NEW! ⚡ *8370	sip.ADPHONE.com	sip.ADPHONE.com
NEW! ✓ *8371	ast1.701email.com	Private Site
NEW! ⚡ *8372	ipcall.pl	ipcall.pl
NEW! ✓ *8373	sip.trincoll.edu	Trinity College  [Home]
NEW! ⚡ *8375	fast1.openface.ca	fast1.openface.ca
NEW! ✓ *8376	sip.persuasion.net.au	sip.persuasion.net.au
NEW! ⚡ *8377	sip.lightspeeddesign.com	sip.lightspeeddesign.com
NEW! ✓ *8378	siproxy1.starhub.com	siproxy1.starhub.com
NEW! ⚡ *8379	gippsweb.com	Wots I.T.?  [Home]
NEW! ⚡ *8380	sip.call-it.biz	sip.call-it.biz
NEW! ⚡ *8381	voip.communityip.com	voip.communityip.com
NEW! ✓ *8382	sip.poesisvoip.com	Poesis Group, Corp.  [Home]
NEW! ✓ *8383	sip.tele500.com	tele500.com  [Home]
NEW! ✓ *8384	pbx.steadfast.net	Steadfast Networks  [Home]
NEW! ✓ *8385	pbx.colobox.com	pbx.colobox.com
NEW! ⚡ *8386	voztele.com	voztele.com
NEW! ✓ *8387	v.uii.net.id	v.uii.net.id  [Home]
NEW! ✓ *8388	gw2.ngn.testlab.jp	gw2.ngn.testlab.jp
NEW! ✓ *8389	sip.draan.nl	sip.draan.nl
NEW! ✓ *8390	opera.rednote.net	opera.rednote.net
NEW! ⚡ *8391	sip.malaiwah-hosting.info	sip.malaiwah-hosting.info
NEW! ⚡ *8392	sip.omnity.biz	sip.omnity.biz  [Home]
NEW! ✓ *8393	sip.mace-eng.co.nz	sip.mace-eng.co.nz  [Home]
NEW! ✘ *8394	sip.pantel.net	sip.pantel.net
NEW! ⚡ *8395	epmvoip2.une.net.co	epmvoip2.une.net.co
NEW! ⚡ *8396	sip.netmaster.ro	sip.netmaster.ro
NEW! ✓ *8397	sip.nomado.eu	sip.nomado.eu  [Home]
NEW! ✓ *8398	sip.wipvoip.com	sip.wipvoip.com
NEW! ✓ *8399	voip.telme.sg	voip.telme.sg
✓ *8610	zeatel.com	zeatel.com
✓ *8616	sip.gate-keeper.com	sip.gate-keeper.com
✓ *8647	sip.dav3.net	sip.dav3.net
NEW! ✓ *8686	vnum.net	vnum.net
⚡ *8897	smart.afraid.org	tuxshield  [Home]
✓ *9269	sip.x2n.net	X2 Networks  [Home]
✓ *9876	darkvoip.net	darkvoip.net  [Home]
✓ *9900	ddi2.net	DDI2.net  [Home]

Legend

- Everything is working OK.
 - Either the provider is blocking inbound calls, or there have been 5 or more unsuccessful calls in a row (in this latter case, the first successful call resets the status back to green.)
 - Insufficient call volumes to determine status.
-

Appendix B Glossary

Address mask

A bit mask used to select bits from an Internet address for subnet addressing. The mask is 32 bits long and selects the network portion of the Internet address and one or more bits of the local portion. Sometimes called subnet mask.

AAL5

ATM Adaptation Layer - This layer maps higher layer user data into ATM cells, making the data suitable for transport through the ATM network.

ADSL

Asymmetric digital subscriber line.

ATM

Asynchronous Transfer Mode - A cell-based data transfer technique in which channel demand determines packet allocation.

ATM offers fast packet technology, real time; demand led switching for efficient use of network resources.

AWG

American Wire Gauge - The measurement of thickness of a wire.

Bridge

A device connects two or more physical networks and forwards packets between them. Bridges can usually be made to filter packets, that is, to forward only certain traffic. Related devices are: repeaters which simply forward electrical signals from one cable to the other, and full-fledged routers which make routing decisions based on several criteria.

Broadband

Characteristic of any network multiplexes independent network carriers onto a single cable. Broadband technology allows several networks to coexist on one single cable; traffic from one network does not interfere with traffic from another. Broadcast A packet delivery system where a copy of a given packet is given to all hosts attached to the network. Example: Ethernet.

CO

Central Office. Refers to equipment located at a Telco or service provider's office.

CPE

Customer Premises Equipment located in a user's premises

DHCP (Dynamic Host Configuration Protocol)

DHCP is software that automatically assigns IP addresses to client stations logging onto a TCP/IP network.

DHCP eliminates having to manually assign permanent IP addresses to every device on your network. DHCP software typically runs in servers and is also found in network devices such as Routers.

DMT

Discrete Multi-Tone frequency signal modulation

Downstream rate

The line rate for return messages or data transfers from the network machine to the user's premises machine.

DSLAM

Digital Subscriber Line Access Multiplex

Dynamic IP Addresses

A dynamic IP address is an IP address that is automatically assigned to a client station (computer, printer, etc.) in a TCP/IP network. Dynamic IP addresses are typically assigned by a DHCP server, which can be a computer on the network or another piece of hardware, such as the Router. A dynamic IP address may change every time your computer connects to the network.

Encapsulation

The technique used by layered protocols in which a layer adds header information to the protocol data unit (PDU) from the layer above. As an example, in Internet terminology, a packet would contain a header from the physical layer, followed by a header from the network layer (IP), followed by a header from the transport layer (TCP), followed by the application protocol data.

Ethernet

One of the most common local area network (LAN) wiring schemes, Ethernet has a transmission rate of 10 Mbps.

FTP

File Transfer Protocol. The Internet protocol (and program) used to transfer files between hosts.

Hop count

A measure of distance between two points on the Internet. It is equivalent to the number of gateways that separate the source and destination.

HTML

Hypertext Markup Language - The page-coding language for the World Wide Web.

HTML browser

A browser used to traverse the Internet, such as Netscape or Microsoft Internet Explorer.

http

Hypertext Transfer Protocol - The protocol used to carry world-wide-web (www) traffic between a www browser computer and the www server being accessed.

ICMP

Internet Control Message Protocol - The protocol used to handle errors and control messages at the IP layer.

ICMP is actually part of the IP protocol.

Internet address

An IP address is assigned in blocks of numbers to user organizations accessing the Internet. These addresses are established by the United States Department of Defense's Network Information Center. Duplicate addresses can cause major problems on the network, but the NIC trusts organizations to use individual addresses responsibly. Each address is a 32-bit address in the form of x.x.x.x where x is an eight-bit number from 0 to 255. There are three classes: A, B and C, depending on how many computers on the site are likely to be connected.

Internet Protocol (IP)

The network layer protocol for the Internet protocol suite

IP address

The 32-bit address assigned to hosts that want to participate in a TCP/IP Internet.

ISP

Internet service provider - A company allows home and corporate users to connect to the Internet.

MAC

Media Access Control Layer - A sub-layer of the Data Link Layer (Layer 2) of the ISO OSI Model responsible for media control.

MIB

Management Information Base - A collection of objects can be accessed via a network management protocol, such as SNMP and CMIP (Common Management Information Protocol).

NAT

Network Address Translation - A proposal for IP address reuse, where the local IP address is mapped to a globally unique address.

NVT

Network Virtual Terminal

PAP

Password Authentication Protocol

PORT

The abstraction used by Internet transport protocols to distinguish among multiple simultaneous connections to a single destination host.

POTS

Plain Old Telephone Service - This is the term used to describe basic telephone service.

PPP

Point-to-Point-Protocol - The successor to SLIP, PPP provides router-to-router and host-to-network connections over both synchronous and asynchronous circuits.

PPPoE

PPP over Ethernet is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.

Remote server

A network computer allows a user to log on to the network from a distant location.

RFC

Request for Comments - Refers to documents published by the Internet Engineering Task Force (IETF) proposing standard protocols and procedures for the Internet. RFCs can be found at www.ietf.org.

Route

The path that network traffic takes from its source to its destination. The route a datagram may follow can include many gateways and many physical networks. In the Internet, each datagram is routed separately.

Router

A system responsible for making decisions about which of several paths network (or Internet) traffic will follow. To do this, it uses a routing protocol to gain information about the network and algorithms to choose the best route based on several criteria known as "routing metrics".

Routing table

Information stored within a router that contains network path and status information. It is used to select the most appropriate route to forward information along.

Routing Information Protocol

Routers periodically exchange information with one another so that they can determine minimum distance paths between sources and destinations.

SNMP

Simple Network Management Protocol - The network management protocol of choice for TCP/IP-based Internet.

SOCKET

- (1) The Berkeley UNIX mechanism for creating a virtual connection between processes.
- (2) IBM term for software interfaces that allow two UNIX application programs to talk via TCP/IP protocols.

Spanning-Tree Bridge Protocol (STP)

Spanning-Tree Bridge Protocol (STP) - Part of an IEEE standard. A mechanism for detecting and preventing loops from occurring in a multi-bridged environment. When three or more LAN's segments are connected via bridges, a loop can occur. Because a bridge forwards all packets that are not recognized as being local, some packets can circulate for long periods of time, eventually degrading system performance. This algorithm ensures only one path connects any pair of stations, selecting one bridge as the 'root' bridge, with the highest priority one as identifier, from which all paths should radiate.

Spoofing

A method of fooling network end stations into believing that keep alive signals have come from and returned to the host. Polls are received and returned locally at either end

Static IP Addresses

A static IP address is an IP address permanently assigned to computer in a TCP/IP network. Static IP addresses are usually assigned to networked devices that are consistently accessed by multiple users, such as Server PCs, or printers. If you are using your Router to share your cable or DSL Internet connection, contact your ISP to see if they have assigned your home a static IP address. User will need that address during your Router's configuration.

Subnet

For routing purposes, IP networks can be divided into logical subnets by using a subnet mask. Values below those of the mask are valid addresses on the subnet.

TCP

Transmission Control Protocol - The major transport protocol in the Internet suite of protocols provides reliable, connection-oriented full-duplex streams.

TFTP

Trivial File Transfer Protocol - A simple file transfer protocol (a simplified version of FTP) that is often used to boot diskless workstations and other network devices such as routers over a network (typically a LAN).

Telnet

The virtual terminal protocol in the Internet suite of protocols - Allows users of one host to log into a remote host and act as normal terminal users of that host.

Transparent bridging

So named because the intelligence necessary to make relaying decisions exists in the bridge itself and is thus transparent to the communicating workstations. It involves frame forwarding, learning workstation addresses and ensuring no topology loops exist (in conjunction with the Spanning-Tree algorithm).

UDP

User Datagram Protocol - A connectionless transport protocol that runs on top of TCP/IP's IP. UDP, like TCP, uses IP for delivery; however, unlike TCP, UDP provides for exchange of datagrams without acknowledgments or guaranteed delivery. Best suited for small, independent requests, such as requesting a MIB value from an SNMP agent, in which first setting up a connection would take more time than sending the data.

UNI signaling

User Network Interface signaling for ATM communications.

Virtual Connection (VC)

A link that seems and behaves like a dedicated point-to-point line or a system that delivers packets in sequence, as happens on an actual point-to-point network. In reality, the data is delivered across a network via the most appropriate route. The sending and receiving devices do not have to be aware of the options and the route is chosen only when a message is sent. There is no pre-arrangement, so each virtual connection exists only for the duration of that one transmission.

WAN

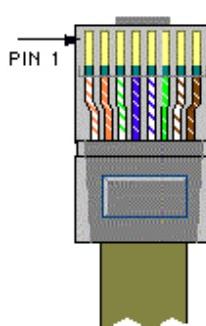
Wide area network - A data communications network that spans any distance and is usually provided by a public carrier (such as a telephone company or service provider).

Appendix C Cabling / Connection

Network cables connect PCs in an Ethernet network Category 5, called "Cat5" for short is commonly used type of network cable today.

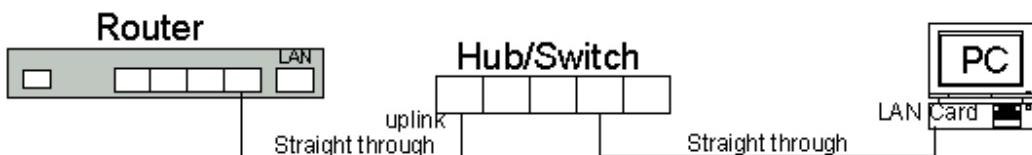
Cat 5 cables are tipped with RJ-45 connectors, which fit into RJ-45 port.

Straight-through vs. Crossover Cables:



Straight-through		Straight-through	
Wire	Becomes	Wire	Becomes
1	1	1	1
2	2	2	2
3	3	3	3
6	6	6	6

LAN Connection:



To check LEDs light up when you finish connecting two pieces of hardware.